



CONSTRUCTION COMPLETION REPORT

Interim Remedial Measure
5140 Commercial Drive

Yorkville, New York

Revision: May 23, 2014

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Yorkville, New York

May 23, 2014

Client

5140 Commercial Drive, LLC

5140 Commercial Drive

Yorkville, New York

Consultant

WSP

5 Sullivan Street

Cazenovia, New York 13035

WSP Contacts

Dave Bouchard

Dave.Bouchard@WSPGroup.com

Kevin D. Sullivan, P.E.

Kevin.Sullivan@WSPGroup.com

Table of Contents

Certification	1
1 Introduction	2
1.1 Report Organization	2
2 Background.....	4
2.1 Investigation and Remediation History	4
2.1.1 Concrete Pad Area Soil Delineation	5
2.1.2 Soil Pile Characterization	5
3 IRM Approach.....	7
3.1 IRM Excavation Design	7
3.1.1 Onsite Soil Management.....	8
3.2 Soil Remediation Goals	8
4 Scope of Work	9
4.1 Characterization Sampling and Analysis	9
4.1.1 Additional Characterization Sampling	11
4.1.2 Waste Characterization Results.....	11
4.2 Soil Berm Removal.....	11
4.2.1 Sub-berm Soil Confirmation Sampling	11
4.2.2 Additional Soil Removal	12
4.3 Concrete Pad Removal	12
4.3.1 Sub-Slab Soil Confirmation Sampling.....	13
4.3.2 Sub-Slab Soil Removal	14
4.4 Pad Area Soil Removal	14
4.4.1 Northern Pad Area Excavation	14
4.4.1.1 Northern Pad Area Confirmation Sampling	15
4.4.1.2 Northern Pad Area Additional Soil Removal.....	15
4.4.2 Southern Pad Area Excavation	16
4.4.2.1 Southern Pad Area Confirmation Sampling.....	16
4.4.2.2 Southern Pad Area Additional Soil Removal	16
4.5 Backfilling and Site Restoration.....	17

4.5.1	Site Restoration	17
5	Summary and Conclusions	18
6	Acronyms	19

Figures

Figure 1	Site Location Map
Figure 2	Site Layout
Figure 3	Pre-IRM Soil Sample Locations
Figure 4	Waste Characterization Sample Locations
Figure 5	Southern Soil Berm Confirmation Sample Locations
Figure 6	Southern Soil Berm Excavation Areas Confirmation Sample Locations
Figure 7	Sub-Slab Excavation Area and Confirmation Sample Locations
Figure 8	Northern Pad Area Excavation and Confirmation Sample Locations
Figure 9	Southern Pad Area Excavation and Confirmation Sample Locations

Tables

Table 1	IRM Waste Characterization Sample Data – Soil & Concrete
Table 2	IRM Waste Characterization Sample Data - Water
Table 3	IRM Confirmation Soil Sample Data – Berm Removal Area
Table 4	IRM Confirmation Soil Sample Data – Sub-Slab Area
Table 5	IRM Confirmation Soil Sample Data – North Excavation Area
Table 6	IRM Confirmation Soil Sample Data – South Excavation Area
Table 7	Non-Hazardous Waste Shipment Data
Table 8	Hazardous Waste Shipment Data

Appendices

Appendix A	– Laboratory Analytical Reports
Appendix B	– Data Usability Study Reports
Appendix C	– Non-Hazardous Waste Shipping Documents
Appendix D	– Hazardous Waste Shipping Documents
Appendix E	– Slide-Rail Shoring System Design

Certification

I, Kevin D. Sullivan, P.E., certify that I am currently a New York State registered professional engineer, I had primary direct responsibility for the implementation of the subject construction program, and I certify that the Interim Remedial Measure (IRM) was implemented and that all construction activities were completed in substantial conformance with the New York State Department of Environmental Conservation-approved IRM Work Plan.



Seal and Signature

May 23, 2014

Date

1 Introduction

WSP, on behalf of 5140 Commercial Drive, LLC (5140), has prepared this Construction Completion Report (CCR) describing the Interim Remedial Measure (IRM) completed at the 5140 Commercial Drive property in Yorkville, New York (Site; Figure 1). The work, the majority of which was performed in late February and early March 2014, included excavation of polychlorinated biphenyl-impacted (PCB-impacted) soils from two areas of the Site: near an exterior elevated concrete pad at the southeast corner of the facility's main building; and along the southern property line. Both areas have been the focus of recent investigations and, in the case of the concrete pad area, a previous remedial action (excavation) performed in 2011. The primary objective of the IRM was to remove affected soils from the Site that could potentially pose a threat to human health or the environment (including the underlying groundwater) and prepare the Site for sale and redevelopment as an industrial property.

The IRM activities were originally outlined in the Brownfield Cleanup Program (BCP) application for the Site, which was submitted to the New York State Department of Environmental Conservation (NYSDEC) on March 21, 2013. The plan envisioned a direct-to-remediation approach for the Site based on the extensive investigation work previously performed at the Site. The NYSDEC and the New York State Department of Health (NYSDOH), in a letter dated July 22, 2013, determined that additional site characterization, including additional soil, groundwater, and vapor evaluations (as a remedial investigation [RI]) would be required before proceeding to a final remedy for the Site. The Departments did agree, however, to allow the remedial action proposed in the BCP application to be undertaken as an IRM in advance of the RI in fulfillment of the timeline outlined in the BCP guidance. WSP, in a letter dated August 26, 2013, indicated to the NYSDEC that 5140 would proceed with the IRM activities. An IRM work plan was submitted in October 2013 and subsequently approved by the NYSDEC in February 2014.

All of the remedial work described in this report has been performed in accordance with the NYSDEC-approved *IRM Work Plan*, dated October 11, 2013, and the Brownfield Cleanup Agreement (BCA Index No.:C633079-06-13) between 5140 and the NYSDEC, dated August 7, 2013. When relevant, specific work tasks were performed in accordance with WSP's standard operating procedures (SOPs) and the quality assurance procedures outlined in the *IRM Work Plan*.

1.1 Report Organization

The content of this CCR is based on the NYSDEC's *Technical Guidance for Site Investigation and Remediation (DER-10)*, dated May 2010. The report is divided into 5 sections, including this introduction:

- Section 2 presents the site background, including discussion of historic investigation and remediation programs that were integral to the planning and implementation of the IRM;
- Section 3 outlines the approach to the IRM activities, including modifications to the remedial design and changes made in the onsite management of the affected soil;
- Section 4 details the IRM scope of work, including the waste characterization methods, excavation procedures for the soil removal, and the site backfilling and restoration procedures;
- Section 5 provides a summary of the work completed and the amounts of hazardous and non-hazardous soil removed from the site during the IRM activities.

It is important to note that this report builds on investigation and remediation work previously performed at the Site by WSP and other consultants. The primary documents referenced in preparing the background and remedial design sections of this plan are:

- *Soil Excavation Work Plan*, dated August 1, 2011, prepared by the Palmerton Group Environmental Consulting Services of East Syracuse, New York
- *Soil Excavation Summary Report and Request for Spill Closure (Spill Number 1107657)*, dated October 18, 2011, prepared by the Palmerton Group

- *Additional Investigation Report*, dated March 18, 2013, prepared by WSP

Summaries of the Site background and previous investigations presented in this report, because of the objectives of the IRM, focus only on the soil-related data. Groundwater investigations, which were performed as part of WSP's *Additional Investigation*, are not discussed, except where necessary to provide context for the proposed work. All three documents were included as attachments to the BCP application submitted for the Site in March 2013.

2 Background

The 5140 Site is situated on 1.9 acres in a commercial and industrial area along the Utica –Yorkville city limits in the eastern portion of Oneida County (Figure 1). Originally constructed in 1957 for Westinghouse Electric Corporation, the facility building consists of 23,000 square feet of manufacturing and office space that was used by Westinghouse to perform electrical equipment repair. Westinghouse operated the facility for 29 years, after which it was sold in 1986 to Eastern Electric Apparatus Repair Company. Eastern Apparatus operated at the facility for 12 years selling the property to the Grand Eagle Motor Repair Company in 1998. The property was purchased by 5140 Commercial Drive, LLC in 2002, and leased to KJ Electric, which conducted electrical equipment repair at the site until 2009. The property has been vacant since 2009 and is currently under contract for sale to a company for warehousing and assembly operations.

Prominent Site features (pre-remediation) are illustrated in Figure 2 and include:

- an 18,000-square-foot steel-frame, concrete block, and sheet metal main warehousing building;
- an attached 5,000-square-foot single story concrete block office building (northeast corner);
- a 50-foot-wide by 60-foot-long elevated concrete pad at the southeast corner of the main building (removed under the IRM scope of work); and
- a series of soil piles forming a 5- to 6-foot-high berm along the southern property line that were reportedly placed on the Site by the adjacent landowner (removed under the IRM scope of work)

2.1 Investigation and Remediation History

The 5140 Site has been the subject of several environmental investigations focused on PCBs that date back to the mid-1990s, including:

- a 1995 Phase I Environmental Assessment performed by GaiaTech, Inc., of Chicago, Illinois (1995 Phase I);
- a 2010 Phase I Environmental Assessment by Sanborn, Head, & Associates (SHA) of Concord, New Hampshire (2010 Phase I);
- a 2010 Phase II Environmental Site Investigation conducted by Geoscience Technical Services, Inc., of Clinton, New York (2010 Phase II)
- a 2011 follow-up investigation and remedial excavation performed by the Palmerton Group, Inc., of East Syracuse, New York
- a 2012 pre-design and soil delineation investigation conducted by WSP

GaiaTech's initial evaluation identified PCBs as a potential concern at the Site and, during a limited follow-up investigation south of the main building, confirmed that elevated concentrations of PCBs were present in soil. The report also indicated that "a (PCB) cleanup had been performed at the Site but no documentation was found" and that the Site had reportedly been listed under the NYSDEC's inactive hazardous waste program for "suspected PCB contamination" since 1986. However, neither GaiaTech nor successive investigators (including WSP) were able to confirm the listing. GaiaTech speculated that the PCB cleanup may have resolved the listing.

As part of a potential sale of the property, SHA performed the 2010 Phase I and Geoscience performed the subsequent 2010 Phase II. The 2010 Phase I indicated that the adjacent property owner, O.W. Hubbell & Sons, Inc., performed a remedial action in 2000 to address "widespread PCB contamination" on a narrow strip of land along the southern property line that was formerly part of the 5140 Site. Hubbell reported that 232 tons of affected soil was removed from the purchased parcel and shipped offsite as hazardous waste for disposal at a permitted disposal facility.

The subsequent 2010 Phase II investigation confirmed that PCBs were present in the surface and subsurface soil south of the main building and in areas east of the main building. The highest concentrations of PCBs were

detected in soil samples collected directly north and south of the elevated concrete pad (Figure 3)¹. Evidence of PCBs was noted as shallow as 18 inches below ground surface (bgs) suggesting a surface release near the pad.

The work performed by the Palmerton Group in March and September 2011 expanded on the 2010 Phase II results revealing substantive PCB-affected soil in the subsurface directly adjacent to the concrete pad. Twenty-eight soil borings were installed to depths of up to 4 feet bgs north and south of the pad to delineate the extent of PCBs over the 25 milligrams/kilogram (mg/kg) standard used for screening (no borings were installed through the pad). The screening level of 25 mg/kg was selected based on the restricted use soil cleanup objectives (SCOs) contained in Title 6 of New York Codes, Rules, and Regulations (6 NYCRR), Part 375, Table 375-6.8(b).

Although delineation was deemed complete following the extensive soil boring program, visibly-stained soil was discovered during the subsequent remedial excavations that locally extended below 4 feet bgs. The stained area reportedly was restricted to relatively narrow (up to 3-feet wide) bands of soil directly adjacent to the north and south sidewalls of the pad. Additional affected soil was removed from both the northern and southern excavations, which eventually exposed the footers of the concrete pad at approximately 5.5 feet bgs. Confirmation soil samples collected from the base of the excavations, and test pits subsequently excavated adjacent to each side of the pad, indicated that soils containing concentrations of total PCBs as high as 5,800 mg/kg were still present at depths of 6 to 8 feet bgs. The affected soils were left in place due to concerns about the structural integrity of the pad and the adjacent building foundations. The confirmation and characterization sampling did not evaluate the soils beneath or directly east of the pad, or characterize the soil berms along the southern portion of the property.

In the summer and fall of 2012, WSP conducted a series of investigations at the Site designed to complete the soil characterization and PCB delineation, and characterize potential impacts to groundwater. The soil components of the investigation were specifically performed to:

- evaluate the extent of PCB-affected soil adjacent to and potentially beneath the concrete pad, and
- characterize the soil piles along the southern property line for disposal purposes

2.1.1 Concrete Pad Area Soil Delineation

The concrete pad area soil delineation included the installation of 20 direct-push soil borings, designated SB-1 through SB-20, directly north and south of the pad where the highest concentrations of PCBs were detected, in the area directly east of the pad, and through the pad itself (Figure 3).

The analytical results indicated that PCBs were present in a number of the samples; however, the concentrations detected were significantly lower than those detected during earlier investigations and were well below both the 25 mg/kg industrial use SCO and the more conservative protection to groundwater standard for industrial sites of 3.2 mg/kg (samples collected from the 2-foot interval directly above the groundwater table). Total PCB concentrations, for example, ranged from non-detectable levels in a number of the samples more distant from the pad, to a high of only 2.7 mg/kg in the sample from SB-19 at the southwest corner of the concrete pad (Figure 3). The highest concentrations were generally detected in borings directly adjacent to the concrete pad with lower or non-detectable concentrations further from the pad consistent with the previous results. No visual staining, odors, or other evidence of impacted soil was noted in any of the borings and no evidence of light non-aqueous phase liquid was observed at the groundwater interface.

2.1.2 Soil Pile Characterization

The soil pile characterization included the installation of four hand auger borings (HA-1 through HA-4) within the soil piles (above grade) along the southern property line. The sample locations were positioned near the top of the

¹ The boring locations and analytical results for the pre-IRM investigations are summarized on Figure 3 and are presented here for context only. A more detailed discussion of the previous work performed at the site is presented in the *Additional Investigation Report*, dated March 18, 2013.

triangular-shaped piles at roughly equidistant points along the long axis of the berm (Figure 3). The hand auger borings did not fully penetrate the soil piles (sample of above grade soil only).

Concentrations of PCBs in the soil pile samples were similar in magnitude to those detected in the WSP investigation samples in areas outside the previous excavation limits, but significantly lower (three orders of magnitude) than the residual PCB concentrations in the soils proposed for excavation and offsite disposal. Trace levels of PCBs were detected in all of the borings except HA-3 (8.09 mg/kg) where the concentrations were above the protection to groundwater standard of 3.2 mg/kg, but well below the 25 mg/kg industrial use SCO used for the pad excavation work.

3 IRM Approach

The results of the investigations at the Site, particularly those conducted in 2010 and 2011, indicated that a release of PCBs occurred near the concrete pad in the southeast corner of the facility. Pre-excavation sampling and visual observations of stained soil during the 2011 excavation suggest that PCBs released at the surface penetrated the soil profile to a depth of at least 6 feet bgs on the south side of the pad and 8 feet bgs along the north side of the pad. The 2011 excavations removed the easily accessible soil adjacent to the pad, but, because of structural concerns, left PCB-affected soil in the subsurface. The PCB-impacted soils appeared, based on the 2012 follow-up investigations, to be confined to a relatively discrete horizon within the soil profile between the base of the previous excavations and the 2-foot-thick interval directly above the water table. These soils were the primary focus of the IRM excavations at the Site.

The balance of the IRM work targeted the soil berm along the southern property line. While the 2012 follow-up investigation data indicated that the PCB concentrations in the berm were comparatively low (the PCB concentrations were three orders of magnitude below those near the pad), the soil nevertheless presented a potential human health risk due to the direct contact or inhalation exposure pathways, and a PCB migration concern, particularly as runoff. The soil piles were also identified as a nuisance (they encroach onto the paved surfaces south of the main building) and an obstacle to the redevelopment of the property.

3.1 IRM Excavation Design

The IRM excavation design was developed using the soil boring and test pit data from the 2011 investigation and remedial action, and the additional investigation data collected by WSP in 2012. The design included remedial excavations both north and south of the pad and the demolition and removal of the concrete pad itself, which was necessary to access the affected soil identified below its footers.

The original plan specified a sloped excavation sidewall between the building foundation and the base of the proposed excavations to prevent the collapse of the building; however, a series of historical blueprints dating from the building construction in 1957 discovered in the facility during a pre-IRM site visit revealed that the concrete pad was constructed as an integral portion of the main building rather than a stand-alone structure. The building and the pad were evidently supported by a continuous, perimeter strip footer foundation, which did not extend beneath the block wall along the west side of the pad. This section of the building wall was supported only by the slab and the subgrade (foundational) soils below. Although this finding did not preclude their use, the resulting sloped sidewalls (extending up to the slab, rather than to the base of the footer foundation) would have extended well into the planned excavation area significantly reducing the amount of affected soil that could be excavated. To address this, WSP modified the approach² to include a slide-rail shoring system installed between the building and the excavations to support the remaining building foundation (and the block wall) allowing excavation in much closer proximity to the building wall. The details of the shoring system and its installation are presented in the *Scope of Work* section (Section 4) below.

The excavation limits north and south of the concrete pad were projected to be 50 feet long by 18 feet wide (at grade) and were designed to encompass soil with the highest PCB detections in the post-remediation test pits. The limits were V-shaped in cross-sectional view with approximate 1:1 sloped sidewalls between the base of the excavation and foundational soil beneath the pad (at grade) and the base of the previous remedial excavation (to prevent collapse). The center of each excavation was positioned such that affected soil within a few feet of the face of the concrete foundation and beneath the footers of the pad would be easily accessible to the excavation equipment. The excavations were projected to extend to a maximum depth of approximately 10 feet bgs, however, in several instances the excavation was advanced deeper (and in one case, expanded horizontally beyond the

² The modifications to the plan, including the use of shoring to stabilize the main building, were changes in the specific implementation of the soil removal that did not change the overall scope of the work. WSP discussed these implementation changes with the NYSDEC during phone conversations in January 2014 and received verbal permission to proceed without modification of the *IRM Work Plan*.

design limits) to address visibly stained soils or affected soil detected in the confirmation soil samples. The result was a significant increase in the volume of affected soil removed for offsite disposal, from the projected 390 cubic yards (195 cubic yards for each³ excavation) to a total of approximately 540 cubic yards of affected soil. A discussion of the final excavation limits and amounts of soil removed for offsite disposal are presented in Section 4 below.

The work plan also included the proposed removal of the soil berm along the southern property line. The excavation approach (the soils were aboveground and, thus, did not require a formal design) was to remove only those portions of the berm on the 5140 site; however, after excavation began, it became clear that removal of the portions of the berm that extended onto the adjacent property would be necessary to prevent erosion and migration of the soils back onto the 5140 site. WSP coordinated with the adjacent landowner (Hubbell) and ultimately removed all of the soil berm along the southern property boundary. The berm removal activities also included several *ad-hoc* excavations that were performed to remove PCBs that were detected in confirmation soil samples collected from the native soil beneath the berm. Together, the two additional soil removals increased the total volume of affected soil removed from the property line to approximately 365 cubic yards, which is 115 cubic yards more than the original estimated berm volume of 250 cubic yards. Section 4 details the berm removal activities.

3.1.1 Onsite Soil Management

The excavation approach proposed in the *IRM Work Plan* included placement of the excavated soil in roll-off boxes that would be staged onsite pending characterization for offsite disposal. Subsequent analysis indicated that the logistics of staging the boxes onsite during the winter would be problematic (due to snow removal, space limitations, and the soil freezing in the boxes) and prohibitively expensive. In response, WSP developed an alternate direct-load approach using in-place characterization of the soil within proposed excavation bounds, including those soils suspected of being potentially hazardous (i.e., those with total PCB concentrations greater than 50 mg/kg) under the Toxic Substance Control Act (TSCA). The in-place samples were collected using a direct-push drill rig, the procedures for which are described below. Additional pre-characterization samples were collected from the aboveground and below ground (once exposed) portions of the concrete pad and the soil berm. Data from these samples were used to determine the property facilities for offsite disposal. None of the excavation spoils (except for a small portion of the frozen foundational soils removed from beneath the pad; See Section 4.3.1 below) were stockpiled onsite before offsite shipment.

3.2 Soil Remediation Goals

The enrollment of the Site by 5140 in the BCP was intended to facilitate the cleanup, redevelopment, and eventual sale of the property to a light industrial user. This use, and the projected future uses of the Site (i.e., industrial), is consistent with the local zoning and 6 NYCRR Part 375 industrial use classification (no recreational component on the Site). The IRM was designed to address soils containing PCBs above the industrial use SCO for PCBs of 25 mg/kg, which is an appropriate level based on this use determination; however, as a conservative measure, 5140 elected to adopt a more stringent site-specific SCO of 10 mg/kg. This was done to provide an additional level of assurance that the areas targeted for remediation meet the relevant Part 375 criteria. All of the confirmation sample analyses, including those collected from the *ad-hoc* excavations along the southern property line, were compared to this value.

³ Includes approximately 35 cubic yards of clean material (backfill from the previous remediation efforts) on each side of the pad that was reused as backfill

4 Scope of Work

The majority of the IRM activities (except the site restoration) were performed between February 10 and March 6, 2014, and included the removal of PCB impacted soil from two areas of the site. The specific work tasks for these activities were as follows:

- **Characterization Sampling and Analysis** – sampling performed to develop waste disposal profiles; included samples collected from the above and below ground portions of the concrete pad, the southern soil berm, the northern and southern pad excavation areas (using in-place sampling techniques), and soil and water drums generated during the previous investigation activities.
- **Soil Berm Removal** – excavation and direct loading of the southern soil berm, the implementation of the sub-berm confirmation sampling, and sub-grade excavations to address residual PCB-affected soil.
- **Concrete Pad Removal** – demolition and removal of the concrete pad (elevated slab, foundations, and footers), confirmation sampling of the sub-slab foundational soil, and removal of those soils found to contain PCBs at concentrations above the SCO.
- **Pad Area Soil Removal** – excavation and direct loading of sub-grade soil from both the northern and southern excavations; includes the installation of shoring to protect the main building during excavation.
- **Backfilling and Site Restoration** – supply, placement and compaction of clean backfill in pad and soil berm excavations and topsoil placement, grading, and reseeding in the disturbed areas of the site.

All of the work was performed in accordance with the *IRM Work Plan* (including the community air monitoring plan [CAMP] for dust and vapor control, and WSP's SOPs for field procedures), and *DER-10*, where applicable. Field quality assurance and control (QA/QC) procedures for the confirmation sampling activities included the collection and analysis of blind duplicate samples, and the use of trip blanks (temperature control) in accordance with the IRM Work Plan. The blind duplicate samples were analyzed with the other samples to evaluate the reproducibility of the sample collection and analytical procedures. Since dedicated stainless steel spoons and bowls were used to collect all waste characterization and confirmation samples, equipment rinse blanks were not necessary. No QA/QC samples were collected as part of the waste characterization activities.

Analytical data generated during the investigations are presented in Tables 1 through 6. Tables 1 and 2 present the waste characterization results for the concrete, soil, and drums (soil cuttings and development water generated during groundwater monitoring well installations⁴). Tables 4 through 6 provide the confirmation sampling results for the southern soil berm and the northern and southern pad area excavations, respectively. Laboratory reports for each sampling area are included in Appendix A. Data usability summary reports (DUSRs) are included in Appendix B.

4.1 Characterization Sampling and Analysis

WSP collected characterization samples from the concrete pad, the soil berm, and the subsurface soils north and south of the concrete pad in advance of the planned demolition and excavation work. The samples were used to develop waste disposal profiles for each potential waste stream to be generated. The specific analyses and sampling frequency required for the waste characterization were provided by the two disposal facilities selected for the work: Oneida-Herkimer Solid Waste Authority (OHSWA) facility in Ava, NY, a NYSDEC-permitted facility for the disposal of non-hazardous wastes; and Chemical Waste Management (CWM) located in Model City, NY, a commercially-permitted hazardous waste (including TSCA) disposal facility regulated by the U.S. Environmental Protection Agency (EPA) Region 2.

⁴ Four groundwater monitoring wells were installed and sampled as part of the additional investigation performed in 2012. Well installation details and sampling results are discussed in the *Additional Investigation Report*, dated March 18, 2013.

The concrete characterization samples, designated WC-Concrete and N.FooterConcrete⁵, were collected from exposed portions of the pad (i.e., the upper surface and exposed portion of the foundation wall) and from the below grade foundation directly adjacent to the affected soil, respectively. The samples were obtained using a pneumatic hammer to separate chips from the pad itself, which were then placed into a plastic bag, pulverized using a hand-held hammer. The pulverized material was transferred to the appropriate laboratory-provided glassware in accordance with the IRM Work Plan.

Soil comprising the southern soil berm was characterized by compositing three aliquots of soil from equidistant locations along the length of the berm into a single soil sample, designated WC-SP. An excavator was used to remove the frozen exterior of the berm and expose a fresh soil face for the sampling. The aliquots were collected using dedicated stainless steel spoons and then placed into a dedicated stainless steel bowl for composting and eventual transfer to the laboratory-provided glassware.

The soils within the planned northern and southern pad area excavations were characterized by collecting in-place soil samples based on the previous investigation and remediation data. Two composite samples, proximal, designated with the suffix “prox,” and distal, labeled with the suffix and “dist,” each comprised of aliquots from two separate borings, were collected from within the bounds of the planned excavations. North of the pad, for example, the proximal sample (WC-N_{prox}) was collected from borings WC-1N and WC-2N installed directly adjacent to the concrete pad in areas that, based on the previous investigation and remediation data, likely contained the highest concentrations of PCBs (i.e., those likely to be disposed of as a TSCA hazardous waste; Figure 4). The aliquots of soil were collected from the soil horizon (8 to 10 feet) corresponding to the highest levels of PCBs detected in the post-2011 remediation test pits. The northern distal sample, WC-N_{dist}, was collected in a similar manner from borings (WC-3N and WC-4N) installed further away from the concrete pad in an area that was likely impacted, but that may have contained lower concentrations of PCBs. The process was repeated on the south side of the pad to generate composite samples WC-S_{prox} and WC-S_{dist} from proximal locations WC-1S and WC-2S, and distal locations WC-3S and WC-4S.

All of the in-place characterization samples were collected using a vehicle-mounted direct-push drill rig equipped with a 5-foot-long macro-core soil sampler. The sampler was advanced from the surface to the target depth. The aliquots were collected based on visual observations (proximal samples) or, if no staining was visible (such as in the distal samples), from the midpoint of the sample interval. The soil was placed in a dedicated stainless steel bowl and composited using dedicated stainless steel spoons in accordance with the IRM Work Plan.

All of the samples collected for characterization were placed in laboratory-supplied glassware and submitted to Con-Test Analytical Laboratory of East Longmeadow, MA, for the following analyses using the Toxicity Characteristic Leaching Procedure (TCLP):

- TCLP volatile organic compounds (VOCs) by EPA Method 8260C;
- TCLP semi-volatile organic compounds (SVOCs) by EPA Method 8270D;
- TCLP metals by method EPA Method 6010C and 7470A;
- Ignitability by EPA Method 1030⁶;
- Total PCBs EPA Method 8082A; and
- pH by EPA Method 9045C.

The characterizations samples were handled and shipped in accordance with the IRM Work Plan. Copies of the analytical reports for the characterization sampling are presented in Appendix A.

⁵ The characterization sample for the above ground portions of the concrete pad (i.e., upper surface, and the above ground foundation) was composited from multiple locations on the pad and, thus, this sample location is not shown on Figure 4.

⁶ For certain samples, Flashpoint by EPA Method 1010 was substituted for ignitability due to an equipment failure at the analytical laboratory. Either method was acceptable by the disposal facilities for the purposes of waste characterization. See Table 1 and the analytical data reports in Appendix B.

4.1.1 Additional Characterization Sampling

Characterization samples were also collected from drums containing drill cuttings (soil) and development and purge water generated from the pre-IRM well installations and sampling activities at the site. The samples, designated WC-drum, were comprised of aliquots collected from each of the sealed drums. The soil aliquots were collected and homogenized using dedicated stainless steel implements and bowls and then placed in the appropriate laboratory-supplied glassware in accordance with the IRM Work Plan. Both the soil and liquid characterization samples were shipped to Con-Test. The soil samples were submitted for full TCLP analysis while the water sample was submitted for target compound and target analyte list analyses.

4.1.2 Waste Characterization Results

The waste characterization sample results are presented in Tables 1 and 2. Based on these results, the aboveground concrete, the underground concrete (footer and wall), the berm soils, and the sub-surface soils collected from 10 feet north and south of the pad (WC-N_{dist} and WC-S_{dist}) were classified as non-hazardous waste (Figure 4). The pre-IRM drill cutting and purge water were also classified as non-hazardous and were added into the non-hazardous waste stream during the respective removal work. As expected, the subgrade soil samples collected in close proximity to the pad each contained concentrations of PCBs in excess of 50 mg/kg, and were therefore classified as hazardous for disposal purposes.

4.2 Soil Berm Removal

Soil berm removal activities were begun on February 17, 2014. A hydraulic excavator was used to remove the soil and place the spoils directly into trucks designated for non-hazardous waste. The intention was to remove the aboveground soil berm down to the level of the surrounding grade; however, the removal of embedded metal, wood, and other debris (including tree roots), required that in certain areas, particularly in the western half of the berm, the excavation be advanced an additional 0.5 foot below the surrounding grade. Additional soil was also removed from the adjacent property (near the center of the berm and from the southeast corner) to ensure that affected soil would not erode from the remaining portions of the berm and migrate onto the 5140 Site.

A total of approximately 312 cubic yards (468 tons) of soil was transported offsite (in 17 truckloads) to the OHSWA facility for disposal as non-hazardous waste (Table 7). Each shipment was accompanied by a bill of lading. Copies of the documentation, including the OHSWA scale receipts for each load accepted, are included in Appendix C.

4.2.1 Sub-berm Soil Confirmation Sampling

Confirmation soil sampling was performed on the underlying native soil within the footprint of the berm once the above grade soil had been removed. Twenty-five samples, designated BERM 5N-5E through BERM 5N-245E⁷, were collected from 25 10-foot by 10-foot grid cells oriented in a line along the southern property line (Figure 5). Each grid cell sample was comprised of aliquots of soil collected from the four quadrants of the cell and composited. Sampling was performed concurrent with the removal activities to allow the samples to be collected from the freshly exposed native soils before they were frozen or covered with snow. All of the samples were collected using dedicated stainless steel implements and then placed into the appropriate laboratory-supplied glassware. All of the samples were shipped to Con-Test for analysis of PCBs by EPA Method 8082.

The results of the berm confirmation sampling are presented on Table 3 and illustrated in Figure 5. Of the 25 grid cells sampled, 11 samples (BERM 5N-25E, -35E, -55E, -115E through -165E, -185E, and -195E) contained PCB concentrations above the site-specific SCO of 10 mg/kg, with 4 of the 11 samples (BERM 5N-125E through -145E,

⁷ The sub-berm confirmation sample IDs are based on the distance, in feet, and direction from an origin located at the southwest corner of the site. Sample 5N-215E, for example, refers to a sample collected 5 feet north and 215 feet east of the origin.

and -195E) containing PCB concentrations that were above the TSCA hazardous waste threshold of 50 mg/kg. The highest concentrations were noted in samples collected from eight grid cells located directly south of the concrete pad area and three cells grouped near the southeast corner of the site. The remaining 14 grid cells contained only low (or non-detectable) concentrations of PCBs below the site-specific SCO of 10 mg/kg.

4.2.2 Additional Soil Removal

Based on the results of the sub-berm confirmation sampling, 5140 elected to have WSP perform an *ad-hoc* soil removal to address those sub-berm grid cells with PCB concentrations above the site-specific SCO. An additional 1 foot of soil was removed over the entire 10-foot by 10-foot area from those cells where PCBs were detected in samples at concentrations above the site-specific SCO of 10 mg/kg but below 50 mg/kg, with two feet of soil removed from those cells where the confirmation samples contained PCBs above the TSCA hazardous waste threshold. The only exception to this procedure was grid cell BERM 5N-155E, which, due to confusion associated with a duplicate sample ID, was inadvertently identified as containing PCBs above 50 mg/kg (the actual sample contained only 35 mg/kg) and excavated to a depth of 2 feet bgs. The *ad-hoc* excavations resulted in an additional 38 cubic yards (62 tons) of non-hazardous soil for offsite disposal at OHSWA and 42 cubic yards (68 tons) of TSCA hazardous waste, which was transported offsite for disposal at the CWM facility. Copies of the bills of lading (non-hazardous soil), waste manifests (hazardous soil), and scale tickets for these offsite shipments are included in Appendices D and E, respectively.

Confirmation sampling was performed in the *ad-hoc* excavation areas after completing the soil removal. The samples were collected using the same procedures as above, but at a higher frequency. Two samples were collected from the base of each cell instead of one. Each sample was comprised of aliquots from two of the four quadrants within each cell. WSP also collected one sidewall sample from every 10-foot length of sidewall, for each of the 2-foot deep excavations. The sidewall samples were collected from a depth of about 1 foot bgs. All of the samples were placed into laboratory-supplied glassware and shipped to Con-test for analysis of PCBs by EPA Method 8082.

The results of the additional confirmation sampling are presented in Table 3. None of *ad-hoc* confirmation samples contained PCBs above the site-specific SCO.

4.3 Concrete Pad Removal

The concrete pad removal work was initiated on February 17 concurrent with the berm removal activities. The preliminary activities included the disassembly of stockade fencing that remained around some portions of the pad and the removal of wood and metal debris from the upper surface of the pad. These items were staged near the southeast corner of the site for later offsite disposal. No waste profiling was performed on these materials as they were not expected to be impacted. All of the debris (approximately 5 tons) was subsequently shipped to OHSWA for disposal as non-hazardous waste.

The concrete demolition was accomplished in stages over a 10-day period beginning with the separation of the pad from the main building. A walk-behind concrete saw was used to cut through the 8-inch reinforced (horizontal) concrete slab, while a hand-held demolition saw was used to cut the vertical surfaces of the foundation wall. Based on a structural and foundational analysis, WSP determined that a segment of the pad foundation (where it connected to the main building) must remain in place to provide adequate bearing capacity for the steel superstructure. The horizontal and aboveground vertical portions of the pad were saw-cut approximately 2 feet from the building wall. The saw-cut was angled outward an additional 10-inches below the ground surface to maintain the minimum foundation length (i.e., 2 feet 10 inches) specified in the design. The relatively small amounts of soil excavated from both sides of the vertical foundations (to provide access for the saw) were temporarily stockpiled on plastic sheeting within the bounds of the planned northern and southern pad excavations with soil anticipated to be clean (e.g., those placed as backfill during the previous remediation) staged separately from those soils expected to be impacted by PCBs.

Concrete removal began as soon as the separation from the main building was completed. The demolition was accomplished primarily using an excavator fitted with a hydraulic hammer attachment. The concrete sections were first broken off in large segments and then subsequently reduced to size to pieces of approximately 12-inches in size (landfill requirement). Any protruding reinforcing steel was cut and removed using a demolition saw, and then staged for recycling. The entire upper surface of the pad, the pad foundation walls, and, north and south of the pad, the pad footers (once exposed during the pad excavations detailed below) were demolished and removed. The eastern foundation and the intermediate piers beneath the center of the concrete pad were demolished to a depth of approximately 12 inches below the (proposed final) ground surface. A total of approximately 112 cubic yards (211 tons) of concrete rubble was removed from the site and transported (in 8 truckloads) to OHSWA for disposal as non-hazardous waste (Table 3). Each shipment was accompanied by a bill of lading, which, along with the scale receipts, is included in Appendix C.

4.3.1 Sub-Slab Soil Confirmation Sampling

Confirmation soil sampling was performed on the sub-slab soil once the upper surface of the concrete pad had been removed. The samples were collected from a 30-cell sampling grid⁸ (6 easterly rows by 5 northerly columns) established over the footprint of the pad (Figure 6). Each 10-foot square cell within the grid was to be sampled using the same techniques used for the native soil beneath the southern soil berm; however, a number of problems were encountered during the sampling resulting from the phased approach to the demolition. Soil in one of the grids, SLAB 5N-5E, was excavated to provide access to the foundation and footer during the shoring installation. The soil was included with the excavated spoils removed from within the shoring for offsite disposal (see description of shoring installation activities below), and was therefore not sampled.

WSP also encountered weather related problems during the sampling activities. Sub-slab soil in several of the grid cells in the southern portion of the pad froze due to the extreme cold after the concrete cover was removed preventing sampling of the soil using hand tools. To address this, WSP used the excavator to break up the frozen surface and expose the unfrozen soil beneath, which was then sampled using the techniques above. WSP placed the frozen soil masses removed from these grid cells in a small stockpile in an adjacent area. Two confirmation soil samples designated SUB-SLAB PILE 1N” and “SUB-SLAB PILE 1S were later collected from these stockpiles by breaking up segments of the frozen soil, thawing them, and then placing the soil into laboratory-supplied sample containers.

Soil from each the 29 grid cells sampled were composited from aliquots collected from the four quadrants of the cell using stainless steel implements. All of the samples (including the two stockpile samples), were placed in laboratory-supplied glassware and shipped to Con-Test for analysis of PCBs by EPA Method 8082. The samples were handled and shipped in accordance with the IRM Work Plan.

The results of the sub-slab confirmation sampling are presented on Table 4 and illustrated in Figure 6. Of the 29 initial confirmation grid samples collected, 24 did not contain detectable concentrations of PCBs or contained PCBs at levels below the site-specific SCO. The remaining five grid cells (SLAB 45N-5E, -25E; SLAB 55N-15E, -25E, and -35E) contained PCBs that were above the site-specific SCO, with three of the grid samples (SLAB 45N-5E, -25E and SLAB 55N-25E) containing PCB concentrations that were above 50 mg/kg. All of the impacted grid cells were located in the northern half of the former pad.

⁸ The sub-slab confirmation samples were identified based on the distance, in feet, and direction from an origin located at the southeast corner of the main building. All of the sample names were derived from the measurements in feet north and east of this point. For example, sample SLAB 15N-25E was collected from a 10-foot by 10-foot grid centered at 15 feet north of the building corner and 25 feet east of the building corner. The sample IDs, which are presented on Figure 3 are omitted from the text (for clarity) except when discussing the sample results.

4.3.2 Sub-Slab Soil Removal

WSP performed an excavation to remove the impacted foundational soil based on the results of the confirmation sampling data. Affected soil was removed from the five impacted grid cells in the northwest corner of the former pad, as well as one additional grid cell, SLAB 45N-15E. The additional cell was located between cells SLAB 45N-5E and -25E and, because of the difficulty associated with excavating the adjacent frozen sub-slab soils, was removed with the other grid cells. The frozen soil presented additional difficulties during the removal of the affected soil. Attempts to scrape off the upper few inches of impacted soil resulted in the dislodging of large, irregular masses of frozen soil up to 18 inches thick. Rather than attempt to segregate those soils above and below the 50 mg/kg threshold, all of the soil was conservatively characterized as TSCA hazardous waste. The soil was direct-loaded and shipped in a single truckload to CWM. The shipment details are summarized in Table 8 and the shipping documents, including the hazardous waste manifest and scale receipt, are included in Appendix D.

Additional confirmation soil samples⁹ were collected from the excavated grid cells once the affected soil had been removed. One new confirmation sample (a composite of the aliquots from the four quadrants) was collected from each grid cell as before. The results, presented in Table 4, indicate that none of the post-excavation sub-slab soil samples contained PCBs above the site-specific SCOs.

4.4 Pad Area Soil Removal

Both the northern and southern pad area excavations required the use of shoring to prevent undermining and damage to the main building. As discussed above, WSP specified a pre-engineered, double slide-rail shoring system, manufactured by Mabey Bridge & Shore, Inc., of Elkridge, MD, for the excavations. The shoring system consisted of 4-vertical rails, which were driven into the soil, and 4 sets of horizontal slide-rail wall panels, which were assembled as a box between the rails and advanced into the subsurface by careful excavation within the box itself. The system was designed to be positioned approximately 4 feet from the outer wall of the main building. Once the shoring was assembled and positioned at the desired depth, a confirmation soil sample was collected from the excavation base, and the interior of the box was backfilled (with clean soil) to stabilize the unit and support the building. The shoring design, stamped and certified by a professional engineer licensed in New York State, is presented in Appendix E.

The shoring system was installed sequentially starting with the north pad area excavation. Once the excavation was complete, the box was extracted and moved to the southern pad area. The specific procedures for the shoring installation in each area are included in the individual excavation descriptions below.

4.4.1 Northern Pad Area Excavation

The shoring for the northern pad area excavation was installed on February 21. The rails were driven into the subsurface to a depth of approximately 16 feet bgs using the hydraulic excavator and the wall panels advanced, along with the excavation, to a depth interval directly above the water table, which was encountered at approximately 11 feet bgs. During the installation activities, WSP noted gray staining and odors in the soils near the top of the water table within the shoring box. The excavation was advanced into the groundwater table (to a depth of approximately 12 feet bgs) in an attempt to remove as much of the affected soil as possible. A single confirmation sample, designated EXC 60N-8E, was collected from the western sidewall at about 11 feet bgs (directly above the groundwater interface) as the wall panel was advanced to its final depth (i.e., outside of the area that could be excavated; Figure 7). The sample was collected, handled, and shipped in accordance with the procedures outlined below. By design, the shoring box was backfilled in place, once the excavation had reached the design limit of the shoring box (water table) and no further excavation could be conducted.

⁹ Grid Cell Slab 55N-15E was excavated (as part of the shoring system installation) after the first round of confirmation soil samples were collected and, thus, could not be re-sampled.

The northern pad area excavation began as soon as the shoring system installation was completed. The soil was removed from the excavation (in tandem with the removal of the remaining portions of the concrete pad footer) using a standard hydraulic excavator. The top 3 feet of clean fill from the previous investigation was segregated and placed on poly sheeting, intending to reuse the soil as backfill. In addition, excavated material from beneath the concrete pad and above the depth of the footer (confirmed clean through the sub-slab confirmation sampling) was also temporarily staged on poly sheeting for eventual reuse in backfilling. All other excavated material was direct loaded into the CWM-provided dump trucks. Visibly impacted soil was encountered during the removal activities and the excavation was advanced below the design depth of 10 feet bgs to the groundwater interface at approximately 11 feet bgs and, in some instances, as deep as 12 feet bgs to ensure complete removal of the affected soil volume. A total of approximately 150 cubic yards (221 tons) was removed during this initial phase of excavation for offsite disposal at CWM (Table 8). The waste manifests and scale receipts for the offsite shipments are presented in Appendix D.

4.4.1.1 Northern Pad Area Confirmation Sampling

Confirmation soil sampling was performed in the excavation once all of the visibly impacted soil had been removed. Discrete soil samples¹⁰ were collected from the base and sidewalls of the excavation at approximately 10 foot intervals (using the same nomenclature and origin for measurements as that used for the sub-slab sampling grid). Sidewall samples were collected at a depth of approximately 7 feet bgs at approximate 10 foot intervals. The sampling was performed with the aid of an excavator (to avoid entering the excavation). The samples were placed in laboratory-supplied glassware and shipped to Con-Test for analysis of PCBs by EPA Method 8082. All of the samples were handled and shipped in accordance with the IRM Work Plan.

The results of the confirmation sampling for the northern pad excavation are presented on Table 5 and illustrated in Figure 7. Of the 11 confirmation samples collected, only two, EXC 60N-8E (6,500 mg/kg), the sidewall sample collected from within the shoring box, and EXC 63N-35E (32.5 mg/kg), a base sample from the midpoint of the excavation about 35 feet east of the building wall, contained PCBs at concentrations above the site-specific SCO. Copies of the laboratory analytical reports are included in Appendix A.

4.4.1.2 Northern Pad Area Additional Soil Removal

WSP performed additional soil removal in the northern pad area on March 6 to address the residual PCBs detected in sample EXC 63N-35E. The excavation near the sample location had already been advanced to the top of the water table during the initial removal activities. To ensure that all of the affected material was removed from the area, WSP excavated a 10-foot by 10-foot area around the sample location to a depth of approximately 12 feet bgs. Approximately 24 cubic yards (38 tons) of additional soil was removed from the excavation and placed directly into a truck for offsite disposal as non-hazardous soil at OSHA. The disposal details are presented in Table 7 and copies of the bill of lading and scale receipt are presented in Appendix C.

At the direction of the NYSDEC, a follow up confirmation soil sample, designated EXC 54N-35E, was collected from the sidewall of the additional excavation (a base sample could not be collected due to ponded water in the base of the excavation) at a depth of approximately 11 feet bgs (i.e. directly above the water table). The sample was collected using the same techniques outlined above and shipped to Con-Test for analysis of PCBs by EPA 8082. No PCBs were detected in the sample at concentrations above the site-specific SCO (Table 5).

No additional soil could be removed to address confirmation sample EXC 60N-8E, which was collected during the shoring box installation. The proximity of the sample to the building and the limitations of the shoring system precluded any additional soil removal (i.e., no additional soil could be removed without destabilizing the building).

¹⁰ The IRM Work Plan proposed an extension of the 10-foot square sub-slab sampling grid for both the northern and southern pad area based on the original design, which included 1:1 sloping within the excavation. The plan was adapted in the field to include discrete base and sidewall samples (rather than composite samples) due to the shoring requirements and the use of vertical sidewalls in both excavations. The NYSDEC was made aware of the shoring modifications in advance of the mobilization to the site. The confirmation sampling was approved and overseen by the onsite NYSDEC personnel.

4.4.2 Southern Pad Area Excavation

The shoring for the southern pad area excavation was installed on February 26 shortly after completing the initial northern pad area excavation. The installation followed the same procedures with the rails driven into the subsurface and the wall panels advanced to the top of the water table at approximately 10 feet bgs. WSP noted gray staining and odors near the top of the water table within the box similar to what had been observed north of the pad. The excavation was advanced into the groundwater table in an attempt to remove as much of the affected soil as possible. Two confirmation samples were collected during the shoring installation. The first sample, designated EXC 0N-6E (7 feet)¹¹, was collected (at the request of the NYSDEC) from beneath the western wall panel within the shoring box at approximately 5 feet bgs before the wall panel was advanced (Figure 8). A second sample, designated 0N-6E (13 feet) was collected from the same location but at a deeper depth of approximately 11 feet bgs (directly above the groundwater interface). The shoring box was backfilled once the excavation had reached the design limit of the shoring box and no further excavation could be conducted.

As with the northern pad area, soil was removed from the southern excavation along with the remaining concrete pad footer using a standard hydraulic excavator. The top 3 feet of excavated material (backfill material from the former remedial work) was placed on poly sheeting for eventual reuse as backfill in the excavation. In addition, excavated material from beneath the concrete pad and above the depth of the footer (confirmed clean through the sub-slab confirmation sampling) was also temporarily staged on poly sheeting for eventual reuse as backfill material. The remaining excavated material was direct loaded into dump trucks provided by CWM for off-site disposal as TSCA hazardous waste. No visibly impacted soil was observed beyond the area where the shoring box was installed. The excavation was advanced to the east until the IRM design limits were achieved on March 3. A total of approximately 175 cubic yards (270 tons) was removed from the excavation for disposal at CWM. The waste manifests and scale receipts for the offsite shipments are presented in Appendix D.

4.4.2.1 Southern Pad Area Confirmation Sampling

Confirmation soil sampling was performed in the excavation once the design limits had been reached. Discrete soil samples were collected from the base and sidewalls of the excavation at approximate 10 foot intervals (as measured from the eastern wall of the main building) using the same procedures used for the northern pad area excavation. The samples were placed in laboratory-supplied glassware and shipped to Con-Test for analysis of PCBs by EPA Method 8082. All of the samples were handled and shipped in accordance with the IRM Work Plan.

The results of the confirmation sampling indicated that two of the 12 confirmation soil samples collected, EXC 0N-25E (81mg/kg) and EXC 5S-35E (1,200 mg/kg) contained PCBs at concentrations above the site-specific SCO (Table 6; Figure 8). Sample EXC 0N-25E was collected from the base of the excavation (about 10 feet bgs), approximately 25 feet east of the main building wall, and directly below the former pad foundation. Sample EXC 5S-35E was collected about 5 feet bgs from the southern sidewall of the excavation approximately 35 feet east of the main building wall. None of the 10 remaining samples, including those samples collected from within the shoring box during its installation, contained PCBs at concentrations above the site-specific SCO. Copies of the laboratory analytical reports are included in Appendix A.

4.4.2.2 Southern Pad Area Additional Soil Removal

WSP performed additional soil removal in the southern pad area on March 6 to address the residual PCBs detected in the base and sidewall confirmation samples. For the base sample, WSP removed a 10 foot by 10 foot area centered on the confirmation sample location. The excavation was advanced to approximately 11 feet bgs. For the sidewall sample, WSP advanced a 4 foot wide, 8 foot deep excavation into the southern sidewall, between 30 and 40 feet east of the building. Approximately 14 cubic yard (20 tons) was removed from the two excavations

¹¹ The depth measurements in the sample IDs were measured from the top of the concrete pad, rather than the surrounding grade. The depth measurements in the text refer to the depth bgs, for consistency.

and direct loaded into a single truck for offsite disposal as TSCA hazardous waste at CWM. The disposal details are presented in Table 8 and copies of the bill of lading and scale receipt are presented in Appendix C.

Follow up confirmation samples, designated EXC 0N-25E (south) and EXC 8S-35E, were collected from the additional excavation areas. Sample EXC 0N-25E(south) was collected from the south sidewall of the 10 foot by 10 foot additional excavation area (a base sample could not be collected due to ponded water in the base of the excavation) at a depth of approximately 11 feet bgs (i.e. directly above the water table; Figure 8). Sample EXC 8S-35E was collected from the south excavation face, approximately 35 feet east of the building wall, at a depth of approximately 7 feet bgs. Both samples were collected using the same techniques outlined above and shipped in accordance with the IRM Work Plan to Con-Test for analysis of PCBs by EPA 8082. No PCBs were detected in the either sample at concentrations above the site-specific SCO (Table 6).

4.5 Backfilling and Site Restoration

Backfilling was performed once all of the preliminary confirmation soil sampling results were received from the analytical laboratory. The backfill materials included the stockpiled soil from the upper few feet of the previous remedial excavation, small amounts of sub-slab soil (already subject to confirmation soil sampling) that were reworked at the edges of the former pad, and clean backfill materials imported from an offsite borrow source. The imported backfill materials, all of which were provided by Poland Sand and Gravel¹², LLC, in Poland, NY, included the following:

- washed #3 stone (poorly graded, clean stone with no fines)
- bank run gravel (well graded gravel, similar to onsite native material)
- stockpiled clean backfill from the 2011 remedial excavation

The washed #3 stone was used in both the northern and southern pad area excavations to stabilize those portions of the excavation that were advanced below the water table. The stone was dumped directly into the ponded areas forming a bridge upon which the remaining backfill would be placed. Small amounts of stone were also used to aid in stabilizing the shoring boxes within the excavations. The balance of the two pad area excavations and the excavated grid cells along the southern property line were backfilled with bank run gravel and the clean backfill from the previous remedial action. The material was placed into the excavations in approximate 12-inch loose lifts and compacted using a walk-behind vibratory compactor. A final rough grading was performed using a bulldozer after the backfilling was completed.

4.5.1 Site Restoration

The site restoration activities were performed during a remobilization to the site on May 15, 2014. The work included additional backfilling and compaction to address some settling that had occurred in both pad area excavations, most likely due to frost penetration in the open excavations and the use of partially frozen¹³ soil for backfill. Bank run gravel obtained from Poland Sand and Gravel was used to fill the depressions. The backfill was compacted and then covered with clean top soil obtained from the same source. The soil was spread to match the surrounding grade and seeded with a mixture containing 35-percent *Fescue* (tall; turf-type), 35-percent *Perennial Ryegrass*, and 30-percent *Annual Ryegrass* provided by Merritt Seed Company of Baldwinsville, New York. The grasses were distributed in a hydroseed slurry (i.e., containing the seed mixture, fertilizer, and mulch) over the disturbed areas using a hydroseed sprayer.

¹² Poland Sand and Gravel is a NYSDEC-permitted quarry.

¹³ Frozen backfill was limited to areas outside of the shoring box excavations. Only imported clean stone and loose bank run gravel was used for backfilling within the shoring box to minimize any potential for destabilization of the main building.

5 Summary and Conclusions

The IRM activities conducted between February 10 and March 6, 2014, removed a considerable mass of PCB-affected soil and debris from the site. A total of 829 tons of non-hazardous waste soil and concrete with PCB concentrations up to 50 mg/kg was excavated and disposed of at the OHSWA facility, including 519 tons of soil and debris generated from the southern soil berm and *ad-hoc* sub-berm removals, 94 tons from the northern pad area excavation, and 211 tons of concrete from the pad itself. The non-hazardous wastes also included a minor volume of soil cuttings, three drums (165 gallons) of purge and development water, and approximately 5 tons of miscellaneous debris such as stockade fencing, wood, and other debris removed from the pad and the southern soil berm.

The removal activities also generated 944 tons of TSCA hazardous waste for disposal at the CWM facility. The majority of the hazardous soil, with total PCB concentrations up to 6,500 mg/kg, was removed from the northern (358 tons) and southern (469 tons) pad area excavations. The balance of the hazardous soil was removed from beneath the soil berm (68 tons) and the concrete pad (49 tons). Concentrations of total PCBs in these soils were as high as 212 mg/kg.

WSP believes that these removal activities achieved the overall objectives of the IRM. Previous investigation at the site had revealed that the PCBs released to the ground surface both north and south of the concrete pad were present in the soil profile at concentrations up to two orders of magnitude above the industrial use SCO. The 2011 remediation removed some, but not all of the affected soil leaving a significant mass of PCBs that was identified as a potential future threat to human health and the environment. The excavations performed for the IRM mitigated this risk by removing the grossly contaminated soil and remediating the areas to levels below the industrial-use SCO. The result is a significant reduction in the PCB mass at the site. Most of the final confirmation soil samples collected from the northern and southern pad area excavations were not only below the site-specific SCO, but were below the protection to groundwater standard of 3.2 mg/kg. Similar results were obtained for the sub-berm soils along the southern property line.

The only exception is the confirmation soil sample collected during the installation of the shoring system in the northern pad area. That sample, which was collected from the western sidewall of shoring excavation, contained total PCBs (6,500 mg/kg) well above the site-specific SCO. WSP removed the visibly stained soil near the sample location and proceeded into the underlying water table to recover as much of the impacted material as possible; however, because of the flooding in the shoring excavation and construction of the box itself (the metal panels of the shoring system could not be lifted, once installed, to reveal the sidewalls), no additional confirmation samples could be collected. Regardless, the extent of any residual PCBs in the approximately 3 feet of soil between the excavation and main building foundation is likely to be limited and are unlikely to pose a significant threat to human health (excavations in close proximity to the building are unlikely) or the environment.

6 Acronyms

BCP	Brownfield Cleanup Program
BCA	Brownfield Cleanup Agreement
bgs	below ground surface
CAMP	community air monitoring plan
CCR	construction completion report
CWM	Chemical Waste Management
DUSR	data usability summary report
EPA	U.S. Environmental Protection Agency
IRM	interim remedial measure
mg/kg	milligrams per kilogram
MS/MSD	matrix spike/matrix spike duplicate
NYCRR	New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OHSWA	Oneida-Herkimer Solid Waste Authority
OSHA	Occupational Safety and Health Administration
PCB	polychlorinated biphenyls
QA/QC	quality assurance/quality control
RI	remedial investigation
SCO	soil cleanup objective
SOP	standard operating procedure
SVOC	semivolatile organic compound
TCLP	Toxicity Characteristic Leaching Procedure
TSCA	Toxic Substances Control Act
VOC	volatile organic compound

Figures

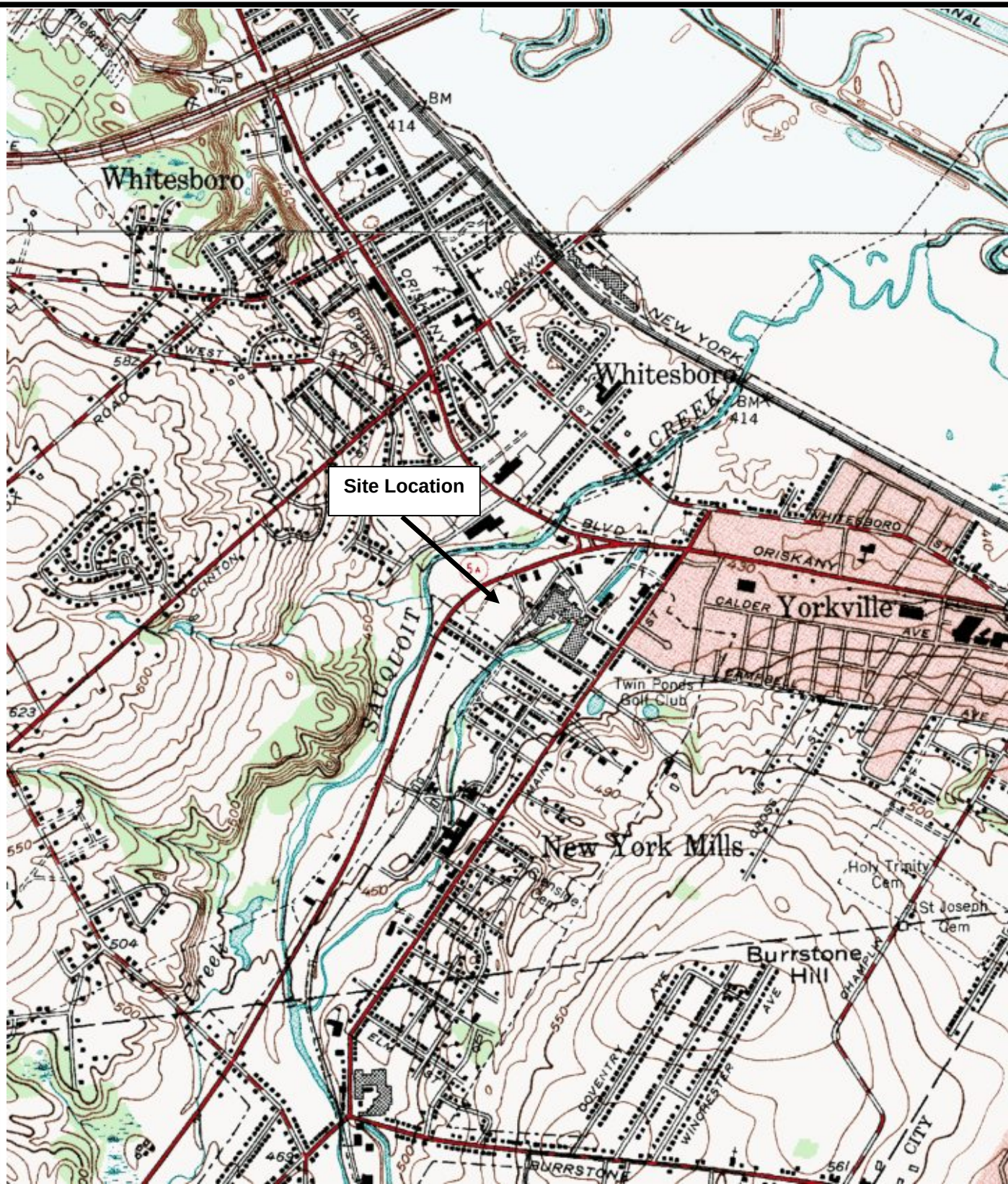
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Approved:

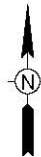
Drawn By:

A



REFERENCE:

7.5 MINUTE SERIES TOPOGRAPHIC QUADRANGLE
UTICA WEST, NEW YORK
PHOTOREVISED 1955 SCALE 1:24,000



WSP USA Corp.
5 Sullivan Street
Cazenovia, New York 13035
(315) 655-3900

FIGURE 1

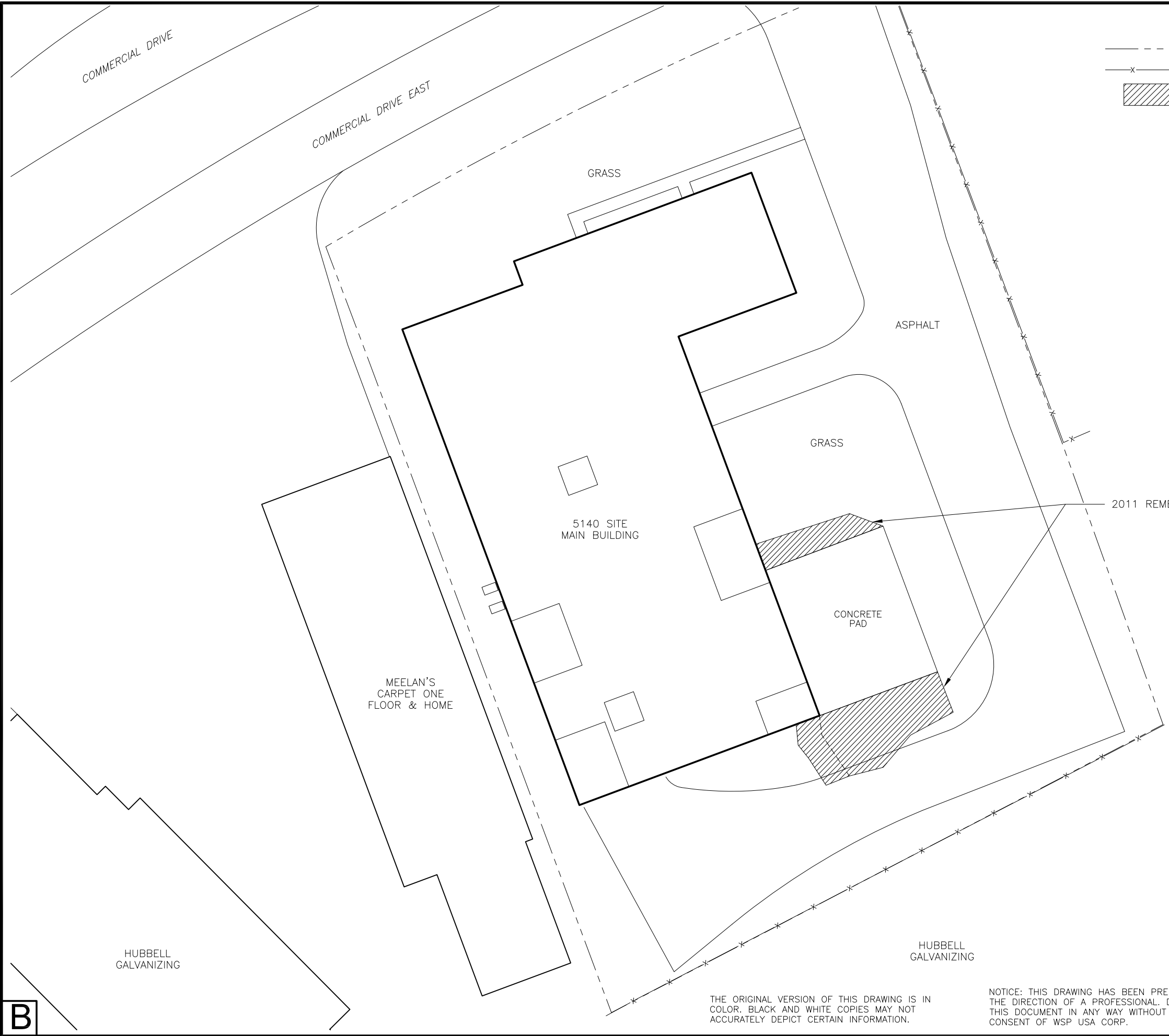
SITE LOCATION MAP

5140 COMMERCIAL DRIVE EAST
YORKVILLE, NEW YORK

PREPARED FOR
5140 COMMERCIAL DRIVE, LLC
YORKVILLE, NEW YORK

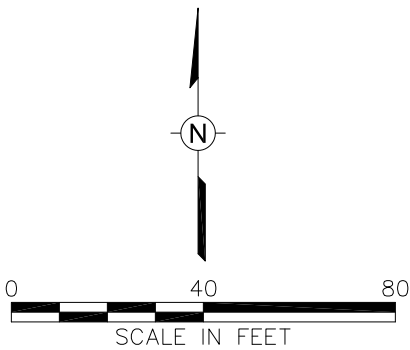
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THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK AND WHITE COPIES MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.

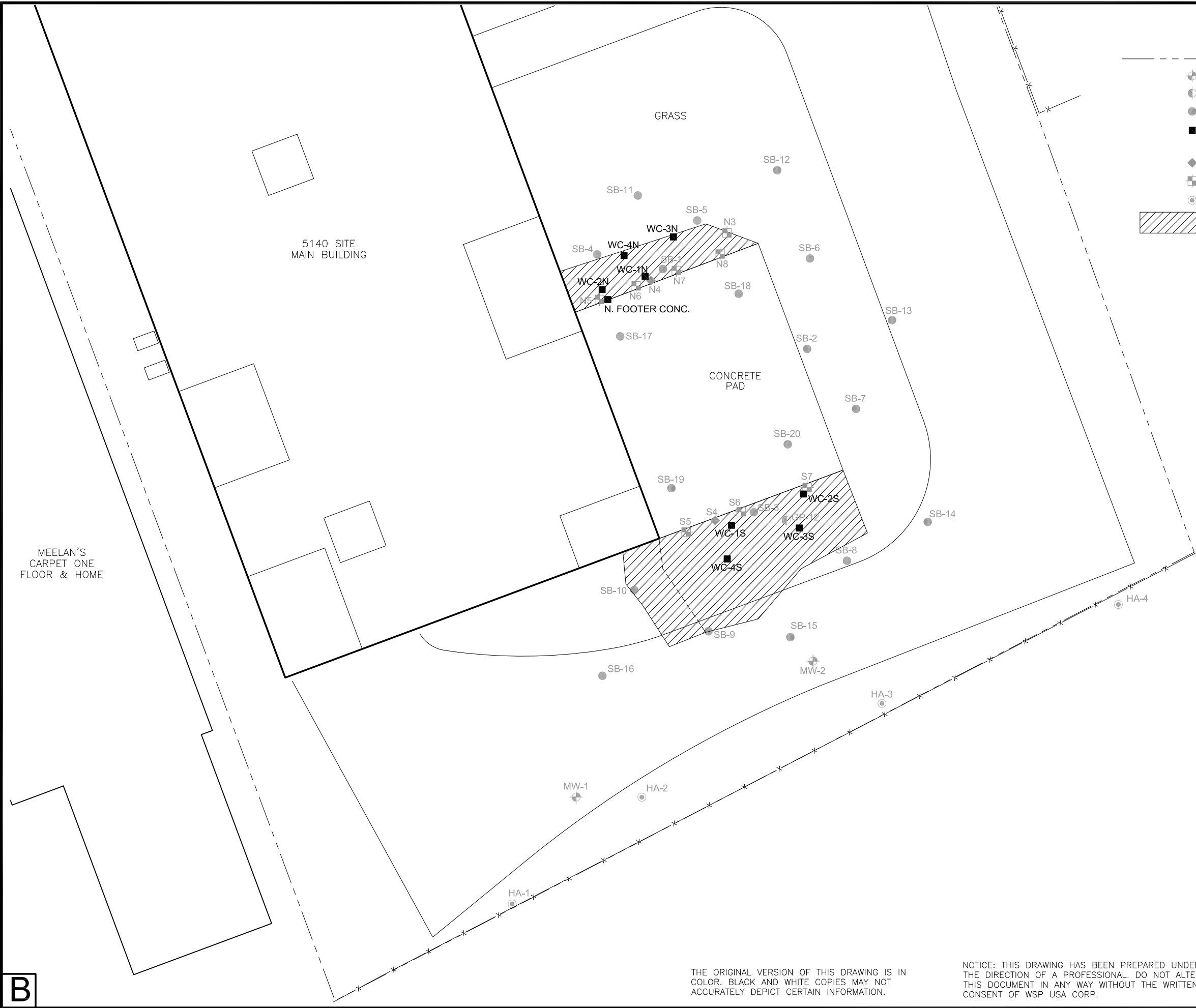
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 WSP USA Corp. 11190 Sunrise Valley Drive, Suite 300 Reston, Virginia 20191 (703) 709-6500 www.wspgroup.com/usa	Figure 2 SITE LAYOUT		5140 COMMERCIAL DRIVE SITE YORKVILLE, NEW YORK PREPARED FOR 5140 COMMERCIAL DRIVE, LLC YORKVILLE, NEW YORK
	Drawn By: EGC	Checked: <i>EGC</i> 4/11/2014	Approved: <i>EGC</i>
	DWG Name: 00032927-019		

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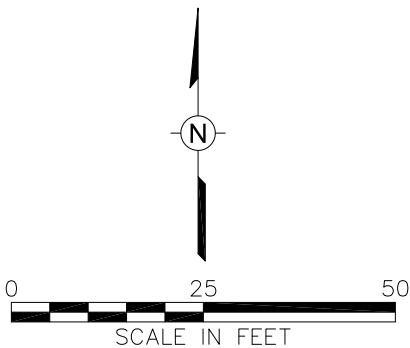
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- LEGEND
- APPROXIMATE PROPERTY BOUNDARY
 - ⊕ MONITORING WELL
 - SOIL BORING (2011)
 - SOIL BORING (2012)
 - SOIL BORING/WASTE CHARACTERIZATION SAMPLE (2014)
 - ◆ CONFIRMATION SOIL SAMPLE (2011)
 - ⊕ TEST PIT (2011)
 - ⊙ HAND AUGER LOCATION (2012)
 - ▨ 2011 REMEDIAL EXCAVATION LIMITS

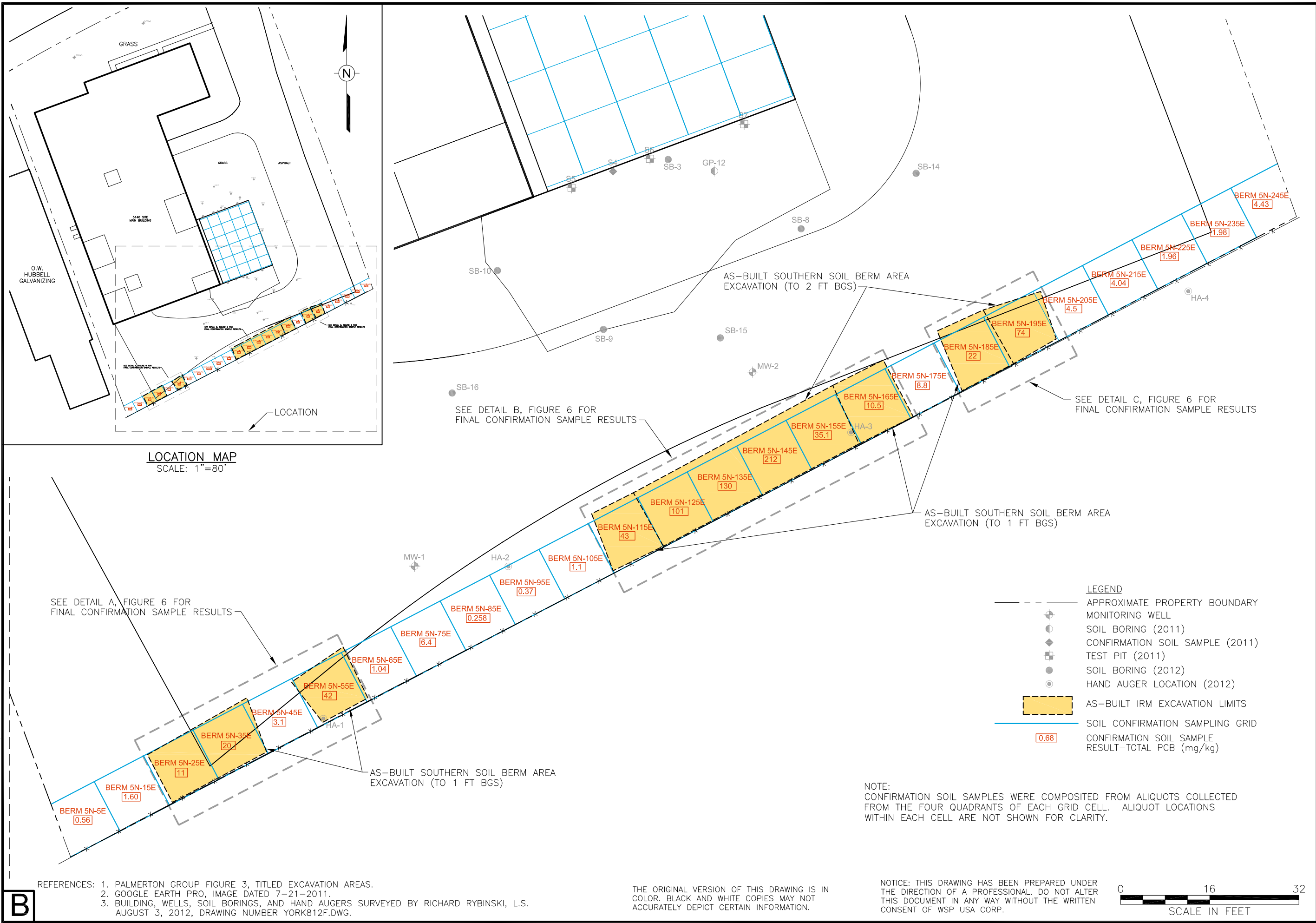
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WSP WSP USA Corp. 11190 Sunrise Valley Drive, Suite 300 Reston, Virginia 20191 (703) 709-6500 www.wspgroup.com/usa	Figure 4 WASTE CHARACTERIZATION SAMPLE LOCATIONS	Drawn By: EGC	Checked: <i>EGC</i> 4/11/2014	Approved: <i>EGC</i>	DWG Name: 00032927-018
		5140 COMMERCIAL DRIVE SITE YORKVILLE, NEW YORK PREPARED FOR 5140 COMMERCIAL DRIVE, LLC YORKVILLE, NEW YORK			

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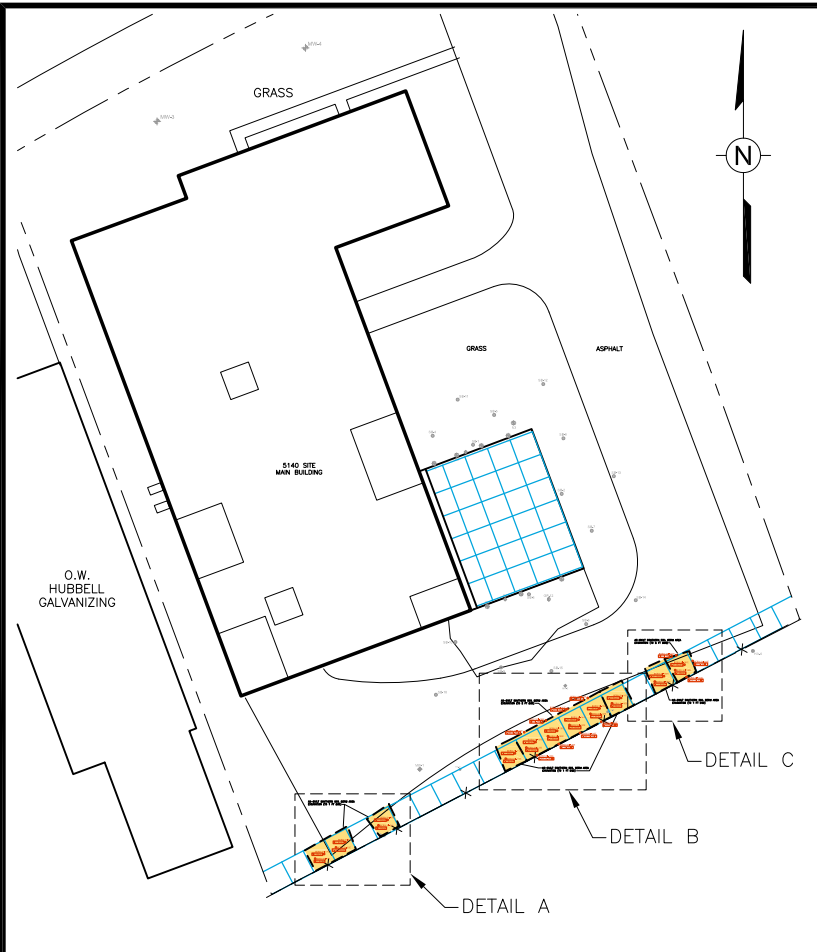
Drawn By: EGC
Checked: *EGC* 3/15/2014
Approved: *EGC*
DWG Name: 00032927-015

5140 COMMERCIAL DRIVE SITE
YORKVILLE, NEW YORK
PREPARED FOR
5140 COMMERCIAL DRIVE, LLC
YORKVILLE, NEW YORK

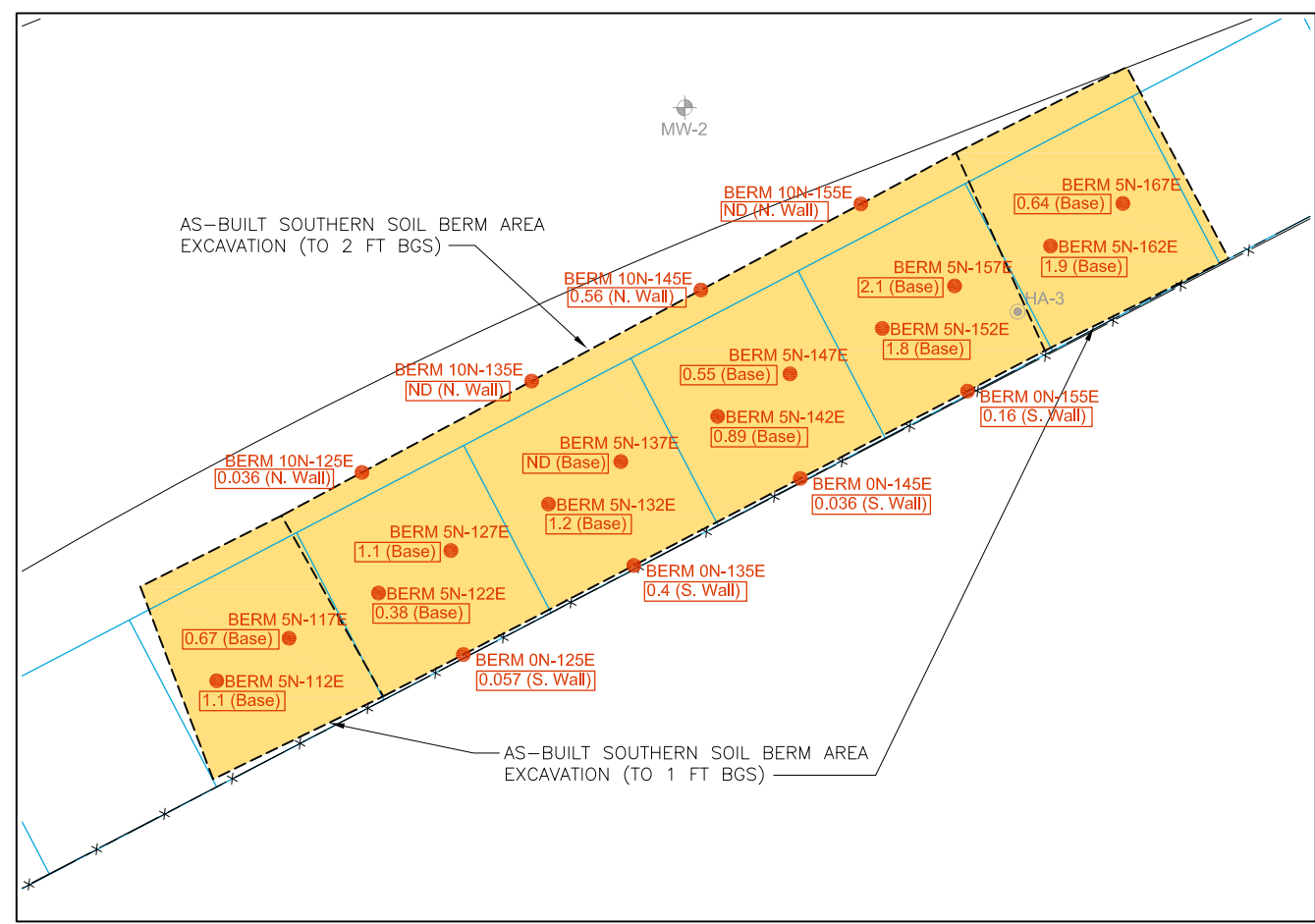
Figure 5
SOUTHERN SOIL BERM
CONFIRMATION SAMPLE LOCATIONS

WSP
WSP USA Corp.
5 Sullivan Street
Cazenovia, New York 13035
(315) 655-3900
www.wspenvironmental.com/usa

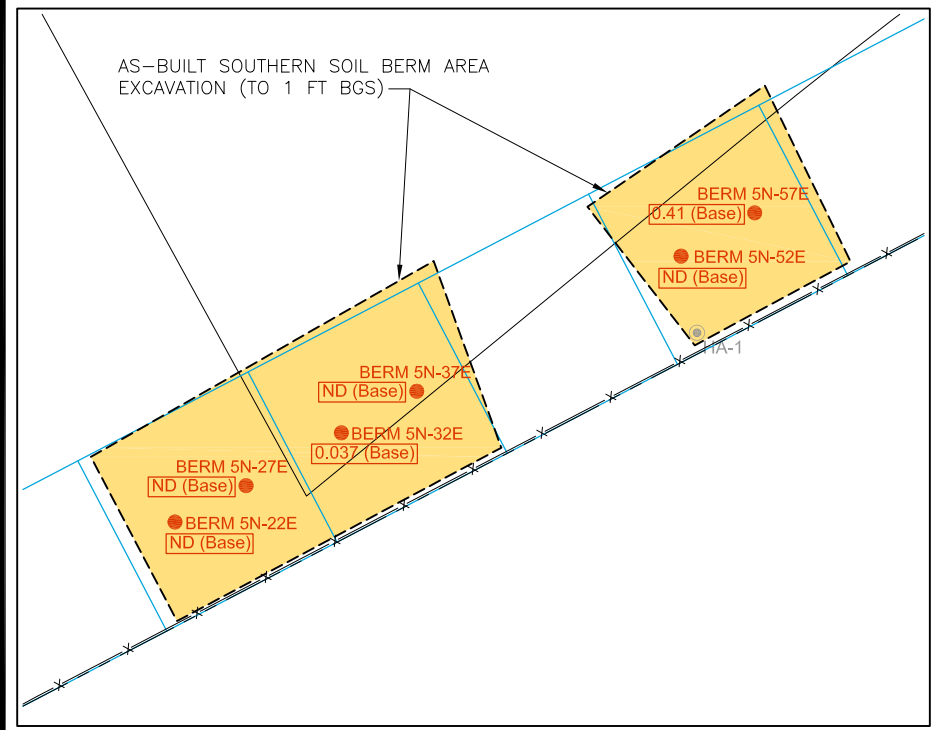
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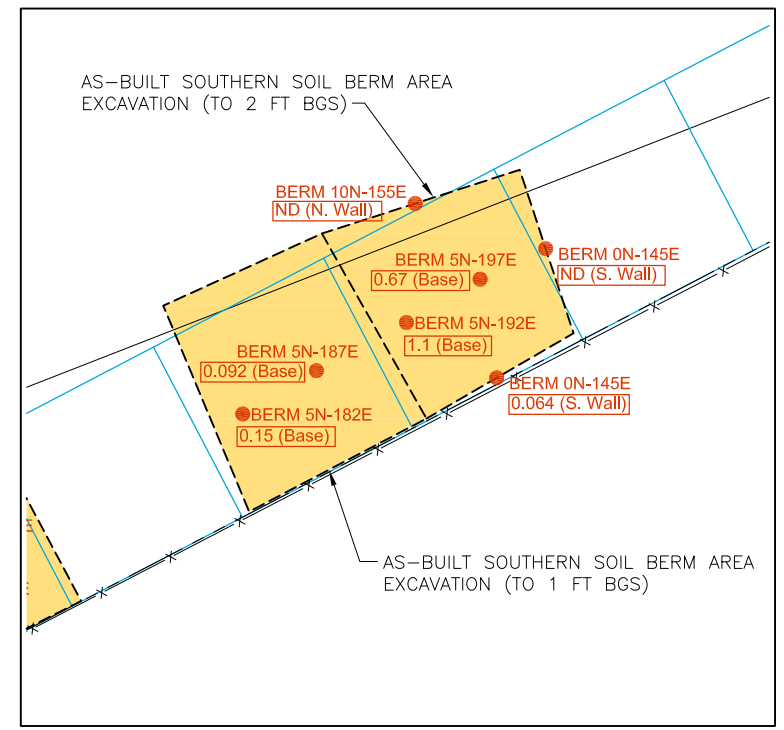
LOCATION MAP
SCALE: 1"=80'



DETAIL B



DETAIL A



DETAIL C

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- ⊕ MONITORING WELL
- ⊙ HAND AUGER LOCATION (2012)
- - - AS-BUILT IRM EXCAVATION LIMITS
- SOIL CONFIRMATION SAMPLING GRID
- SOIL CONFIRMATION SOIL SAMPLE LOCATION
- 0.38 (Base) FINAL CONFIRMATION SOIL SAMPLE RESULT-TOTAL PCB (mg/kg)

NOTE:
SIDEWALL SOIL SAMPLE LOCATIONS ARE APPROXIMATE. BASE SOIL CONFIRMATION SAMPLES WERE COMPOSITED FROM ALIQUOTS COLLECTED FROM THE EASTERNMOST (i.e., NORTHEAST AND SOUTHEAST) AND WESTERNMOST (i.e., NORTHWEST AND SOUTHWEST) QUADRANTS IN EACH GRID CELL. BASE SAMPLE LOCATIONS ARE DEPICTED IN THEIR RESPECTIVE HALVES OF EACH GRID CELL FOR ILLUSTRATION PURPOSES ONLY.

- REFERENCES:
1. PALMERTON GROUP FIGURE 3, TITLED EXCAVATION AREAS.
 2. GOOGLE EARTH PRO, IMAGE DATED 7-21-2011.
 3. BUILDING, WELLS, SOIL BORINGS, AND HAND AUGERS SURVEYED BY RICHARD RYBINSKI, L.S. AUGUST 3, 2012, DRAWING NUMBER YORK812F.DWG.

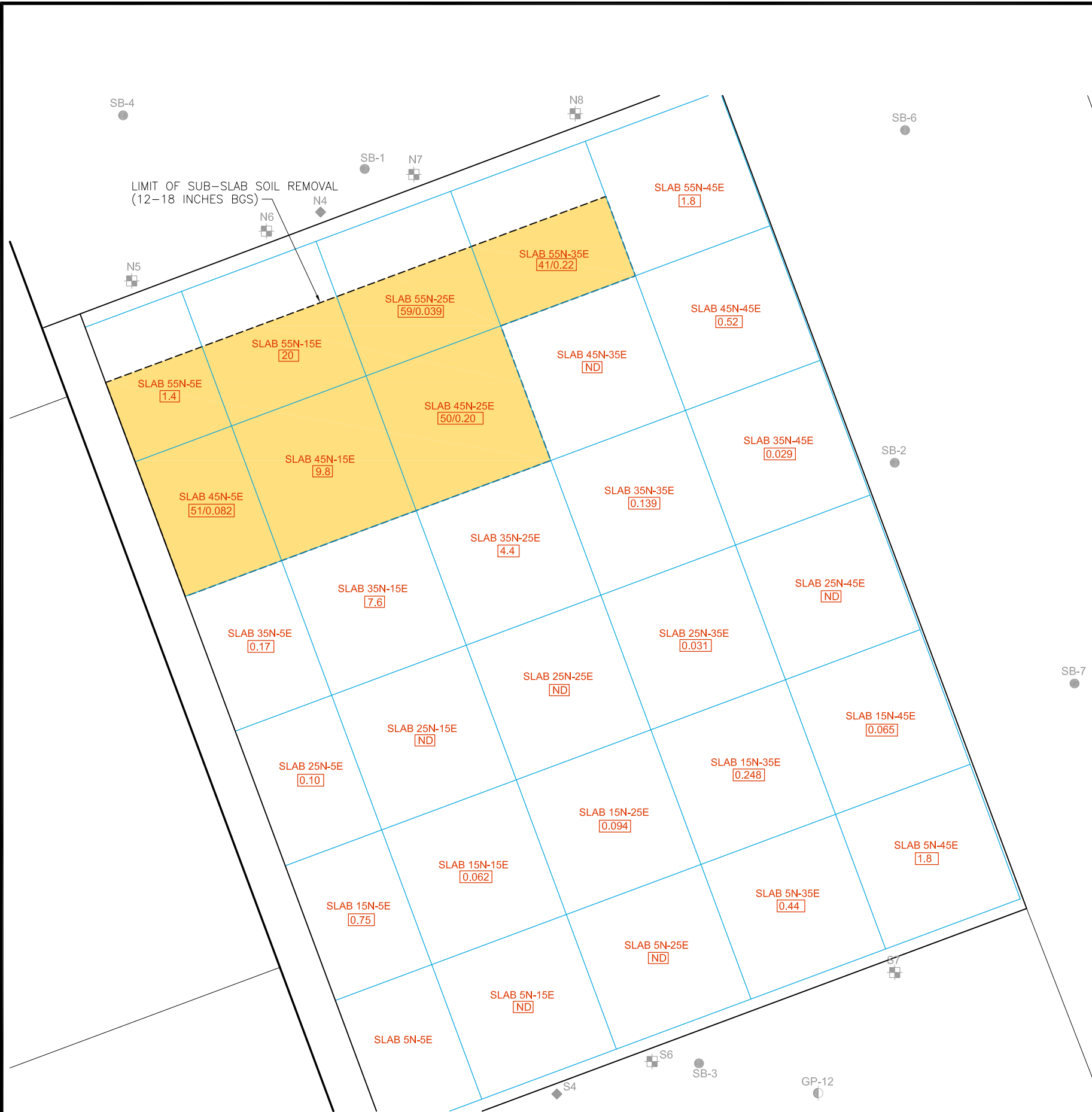
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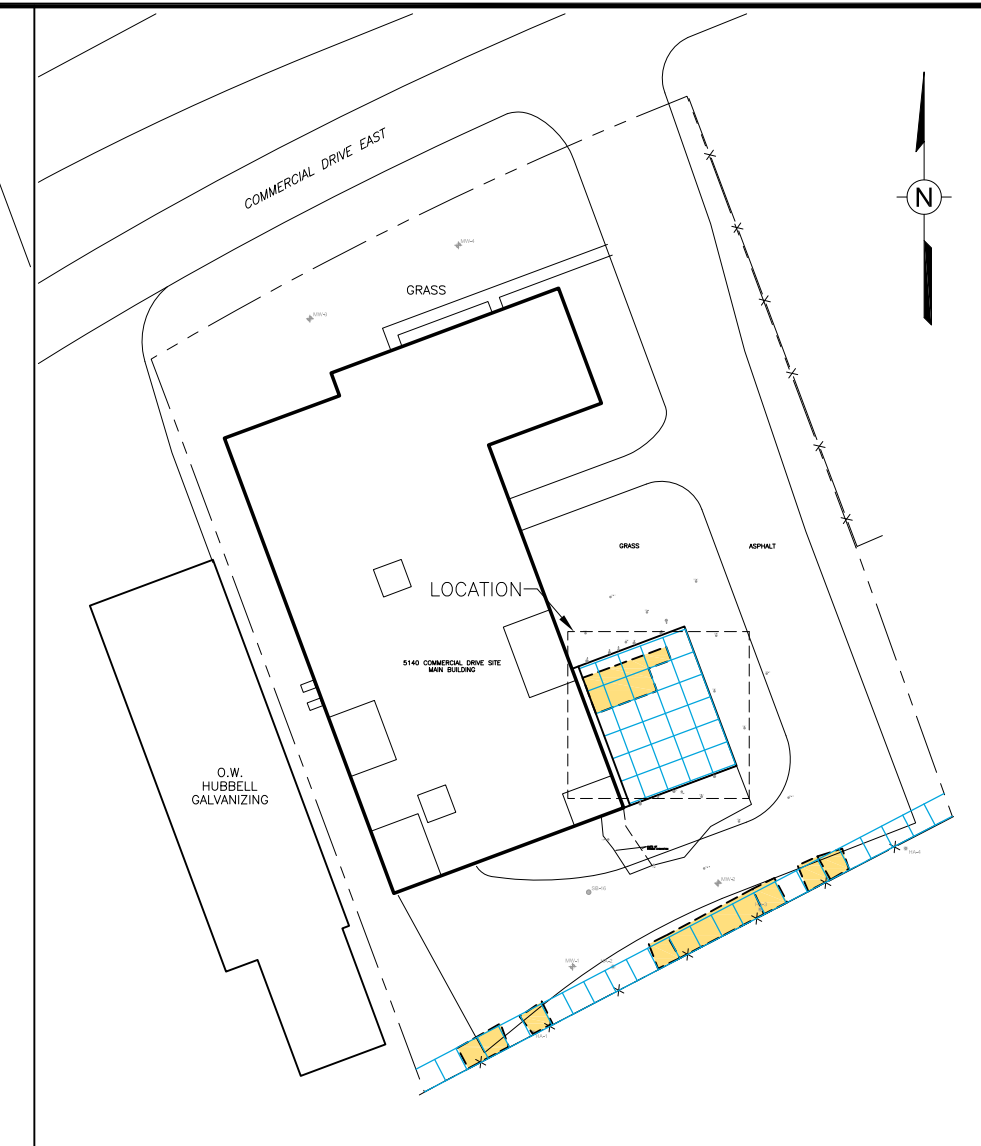
Drawn By: EGC	Checked: <i>EGC</i> 3/15/2014	Approved: <i>EGC</i>	DWG Name: 00032927-023
5140 COMMERCIAL DRIVE SITE YORKVILLE, NEW YORK			
PREPARED FOR 5140 COMMERCIAL DRIVE, LLC YORKVILLE, NEW YORK			
Figure 6 SOUTHERN SOIL BERM EXCAVATION AREAS CONFIRMATION SAMPLE LOCATIONS			
 WSP USA Corp. 5 Sullivan Street Cazenovia, New York 13035 (315) 655-3900 www.wspenvironmental.com/usa			

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REFERENCES: 1. PALMERTON GROUP FIGURE 3, TITLED EXCAVATION AREAS.
2. GOOGLE EARTH PRO, IMAGE DATED 7-21-2011.
3. BUILDING, WELLS, SOIL BORINGS, AND HAND AUGERS SURVEYED BY RICHARD RYBINSKI, L.S. AUGUST 3, 2012, DRAWING NUMBER YORK812F.DWG.

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LOCATION MAP
SCALE: 1"=80'

- LEGEND**
- APPROXIMATE PROPERTY BOUNDARY
 - SOIL BORING (2011)
 - ◆ CONFIRMATION SOIL SAMPLE (2011)
 - TEST PIT (2011)
 - SOIL BORING (2012)
 - AS-BUILT IRM EXCAVATION LIMITS
 - SOIL CONFIRMATION SAMPLING GRID
 - 59/0.039 INITIAL/FINAL CONFIRMATION SOIL SAMPLE RESULT-TOTAL PCB (mg/kg)

- NOTE:**
- CONFIRMATION SOIL SAMPLES WERE COMPOSITED FROM ALIQUOTS COLLECTED FROM THE FOUR QUADRANTS OF EACH GRID CELL. ALIQUOT LOCATIONS WITHIN EACH CELL ARE NOT SHOWN FOR CLARITY.
 - GRID CELLS SLAB 5N-5E AND SLAB 55N-15E WERE EXCAVATED AS PART OF THE SHORING INSTALLATION AND, THUS, WERE NOT SAMPLED (SLAB 5N-5E) OR RE-SAMPLED (SLAB 55N-15E). SEE TEXT FOR EXPLANATION.

NOTICE: THIS DRAWING HAS BEEN PREPARED UNDER THE DIRECTION OF A PROFESSIONAL. DO NOT ALTER THIS DOCUMENT IN ANY WAY WITHOUT THE WRITTEN CONSENT OF WSP USA CORP.

0 8 16
SCALE IN FEET

Drawn By: EGC
Checked: *EGC* 4/29/2014
Approved: *EGC*
DWG Name: 00032927-020

5140 COMMERCIAL DRIVE SITE
YORKVILLE, NEW YORK
PREPARED FOR
5140 COMMERCIAL DRIVE, LLC
YORKVILLE, NEW YORK

Figure 7
SUB-SLAB EXCAVATION AREA AND
CONFIRMATION SAMPLE LOCATIONS

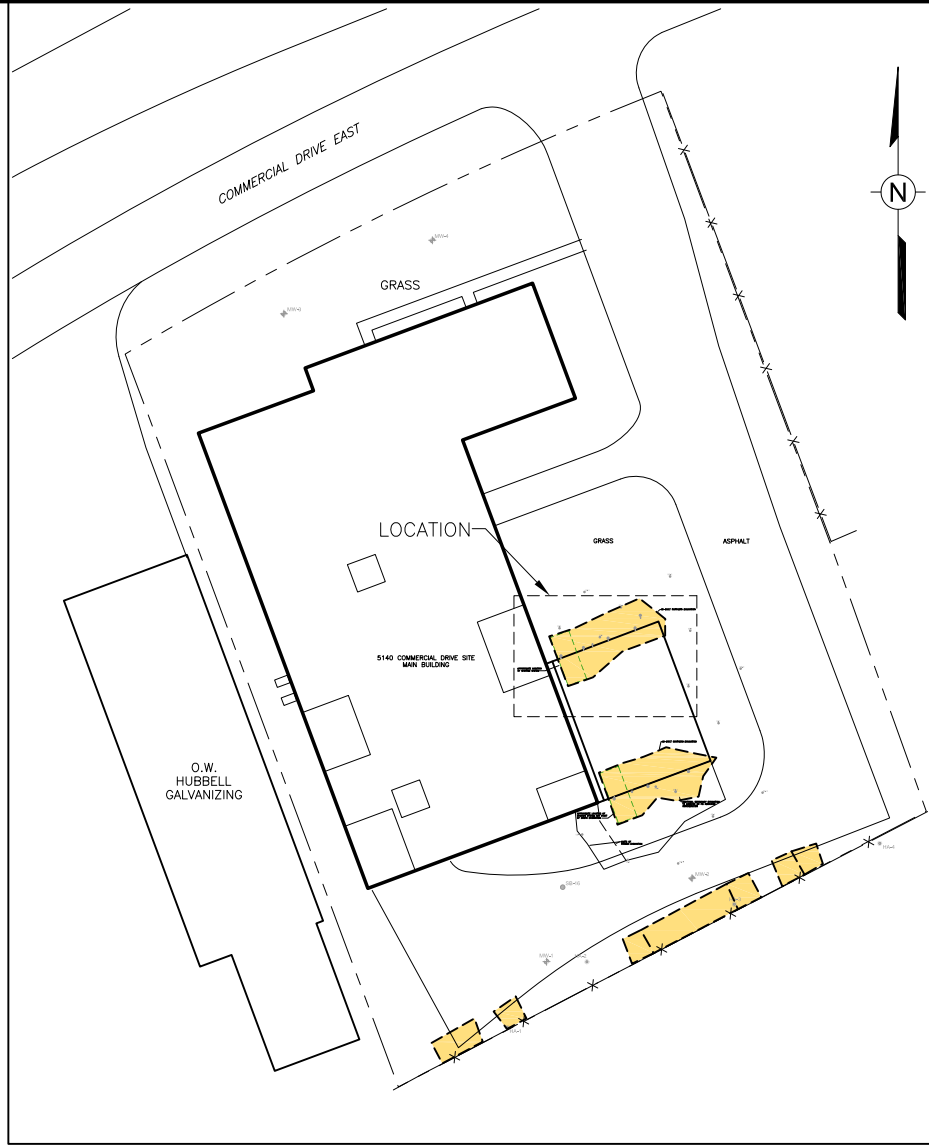
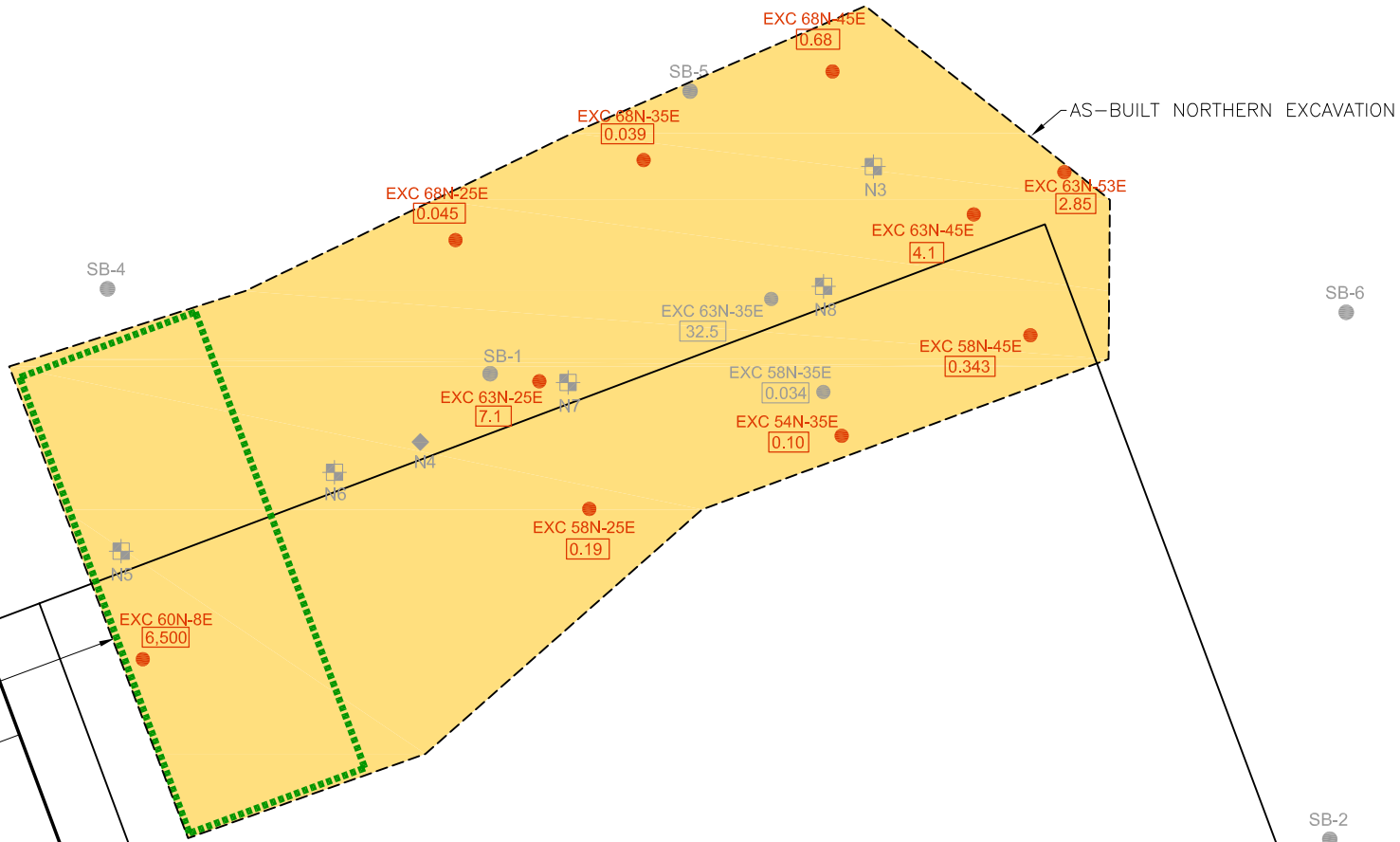
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B

REFERENCES: 1. PALMERTON GROUP FIGURE 3, TITLED EXCAVATION AREAS.
2. GOOGLE EARTH PRO, IMAGE DATED 7-21-2011.
3. BUILDING, WELLS, SOIL BORINGS, AND HAND AUGERS SURVEYED BY RICHARD RYBINSKI, L.S.
AUGUST 3, 2012, DRAWING NUMBER YORK812F.DWG.

- LEGEND
- APPROXIMATE PROPERTY BOUNDARY
 - ◆ CONFIRMATION SOIL SAMPLE (2011)
 - ⊕ TEST PIT (2011)
 - SOIL BORING (2012)
 - AS-BUILT IRM EXCAVATION LIMITS
 - 59 CONFIRMATION SOIL SAMPLE RESULT-TOTAL PCB (mg/kg)
 - 0.68 CONFIRMATION SOIL SAMPLE RESULT-TOTAL PCB (mg/kg) REMOVED DURING SUBSEQUENT EXCAVATION



LOCATION MAP
SCALE: 1"=80'

NOTE:
CONFIRMATION SOIL SAMPLES EXC 63N-35E AND EXC 58N-35E WERE REMOVED DURING SUBSEQUENT EXCAVATION. SEE TEXT FOR EXPLANATION.

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Figure 8

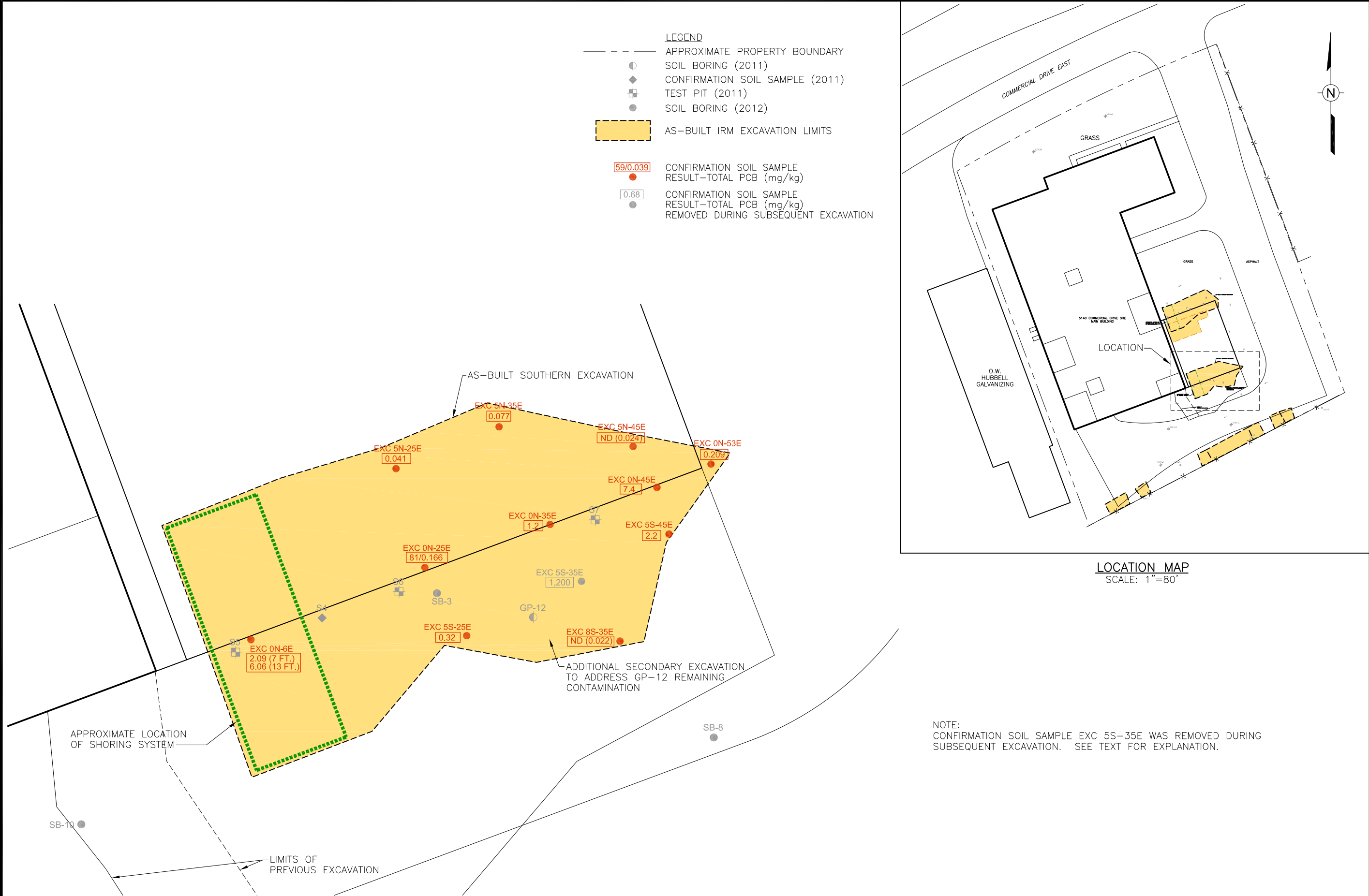
NORTHERN PAD AREA EXCAVATION AND
CONFIRMATION SAMPLE LOCATIONS

5140 COMMERCIAL DRIVE SITE
YORKVILLE, NEW YORK
PREPARED FOR
5140 COMMERCIAL DRIVE, LLC
YORKVILLE, NEW YORK

Drawn By: EGC
Checked: *EGC* 4/29/2014
Approved: *EGC*
DWG Name: 00032927-021

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Drawn By: EGC	Checked: <i>EGC</i> 4/29/2014	Approved: <i>EGC</i>	DWG Name: 00032927-022

5140 COMMERCIAL DRIVE SITE YORKVILLE, NEW YORK	PREPARED FOR 5140 COMMERCIAL DRIVE, LLC YORKVILLE, NEW YORK

Figure 9

SOUTHERN PAD AREA EXCAVATION AND
CONFIRMATION SAMPLE LOCATIONS

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Cazenovia, New York 13035
(315) 655-3900
www.wspenvironmental.com/usa

Tables

Table 1

IRM Waste Characterization Sample Data - Soil Concrete
5140 Site
Yorkville, New York

Sample ID: Date Sampled:	WC-SP <u>2/10/2014</u>	WC-N prox <u>2/10/2014</u>	WC-N dist <u>2/10/2014</u>	WC-S prox <u>2/11/2014</u>	WC-S dist <u>2/11/2014</u>	WC-drums <u>2/11/2014</u>	WC-Concrete <u>2/11/2014</u>	N. Footer Conc. <u>2/19/2014</u>
Polychlorinated Biphenyls (mg/kg)								
Aroclor 1016	0.11 U	110 U	0.11 U	1.1 U	1.1 U	0.12 U	1.7 U	0.11 U
Aroclor 1221	0.11 U	110 U	0.11 U	1.1 U	1.1 U	0.12 U	1.7 U	0.11 U
Aroclor 1232	0.11 U	110 U	0.11 U	1.1 U	1.1 U	0.12 U	1.7 U	0.11 U
Aroclor 1242	0.11 U	110 U	0.11 U	1.1 U	1.1 U	0.12 U	1.7 U	0.11 U
Aroclor 1248	0.11 U	110 U	0.11 U	1.1 U	1.1 U	0.12 U	1.7 U	0.11 U
Aroclor 1254	0.32	110 U	0.11 U	1.4	1.4	0.21	1.7 U	0.11 U
Aroclor 1260	0.21	770	0.22 R-06	5.5	3.9	0.65	11	0.45
Aroclor 1262	0.11 U	110 U	0.11 U	1.1 U	1.1 U	0.12 U	1.7 U	0.11 U
Aroclor 1268	0.11 U	110 U	0.11 U	1.1 U	1.1 U	0.12 U	1.7 U	0.11 U
TCLP VOCs (mg/l)								
Benzene	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.0010 U
2-Butanone (MEK)	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U, R-05
Carbon Tetrachloride	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.0050 U
Chlorobenzene	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.0010 U
Chloroform	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.0020 U
1,4-Dichlorobenzene	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.0010 U
1,2-Dichloroethane	0.010 U,	0.010 U,	0.010 U, V-	0.010 U	0.010 U	0.010 U	0.010 U	0.0010 U
1,1,-Dichloroethene	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.0010 U
Tetrachloroethene	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.0010 U
Trichloroethene	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.0010 U
Vinyl Chloride	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.0020 U

Table 1

IRM Waste Characterization Sample Data - Soil Concrete
5140 Site
Yorkville, New York

Sample ID: Date Sampled:	WC-SP <u>2/10/2014</u>	WC-N prox <u>2/10/2014</u>	WC-N dist <u>2/10/2014</u>	WC-S prox <u>2/11/2014</u>	WC-S dist <u>2/11/2014</u>	WC-drums <u>2/11/2014</u>	WC-Concrete <u>2/11/2014</u>	N. Footer Conc. <u>2/19/2014</u>
TCLP SVOCs (mg/l)								
2,4-Dinitrotoluene	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Hexachlorobenzene	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Hexachlorobutadiene	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Hexachloroethane	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
2-Methylphenol	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
3/4-Methylphenol	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Nitrobenzene	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Pentachlorophenol	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Pyridine	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
1 2,4,5-Trichlorophenol	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
1 2,4,6-Trichlorophenol	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
TCLP - Organochloride Pesticides (ug/l)								
gamma-BHC (Lindane)	NA	NA	NA	NA	NA	NA	NA	0.030 U
Chlordane	NA	NA	NA	NA	NA	NA	NA	0.20 U
Endrin	NA	NA	NA	NA	NA	NA	NA	0.080 U
Heptachlor	NA	NA	NA	NA	NA	NA	NA	0.050 U
Heptachlor epoxide	NA	NA	NA	NA	NA	NA	NA	0.050 U
Methoxychlor	NA	NA	NA	NA	NA	NA	NA	0.50 U
Toxaphene	NA	NA	NA	NA	NA	NA	NA	1.0 U
TCLP - Herbicides (mg/l)								
2,4-D	NA	NA	NA	NA	NA	NA	NA	0.050 U
2,4,5-TP (Silvex)	NA	NA	NA	NA	NA	NA	NA	0.0050 U

Table 1

IRM Waste Characterization Sample Data - Soil Concrete
5140 Site
Yorkville, New York

Sample ID: Date Sampled:	WC-SP <u>2/10/2014</u>	WC-N prox <u>2/10/2014</u>	WC-N dist <u>2/10/2014</u>	WC-S prox <u>2/11/2014</u>	WC-S dist <u>2/11/2014</u>	WC-drums <u>2/11/2014</u>	WC-Concrete <u>2/11/2014</u>	N. Footer Conc. <u>2/19/2014</u>
TCLP Metals (mg/l)								
Arsenic	0.031	0.032	0.030	0.010 U	0.010 U	0.010 U	0.020 U	0.010 U
Mercury	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U
Barium	0.39	0.33	0.39	0.40	0.35	0.40	0.88	0.46
Cadmium	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U
Chromium	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Lead	0.050	0.010 U	0.012	0.065	0.066	0.070	0.16	0.046
Selenium	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Silver	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.019
Ignitability	Non-Flammable	Non-Flammable	Non-Flammable	Non-Flammable	Non-Flammable	Non-Flammable	Non-Flammable	Non-Flammable
pH (S.U.)	8.5	8.2	8.5	8.2 H-01	8.2 H-01	8.0 H-01	12 H-01	12 H-01
Percent Solid (% by weight)	90.0	89.5	89.0	89.1	89.9	86.0	NA	90.6

a/ Bold = compound detected above the reporting limit; PCBs = polychlorinated biphenyls; mg/kg = milligram per kilogram; mg/l = milligram per liter; ug/l = microgram per liter; U = analyte not detected above laboratory detection limits; TCLP = Toxicity Characteristic Leaching Procedure; VOCs = volatile organic compounds; SVOCs = semi-volatile organic compounds; S.U. = standard units; NA = not analyzed for this parameter; V-05 = continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side; R-05 = laboratory fortified blank duplicate relative percent difference (RPD) is outside of control limits. Reduced precision is anticipated for any reported value for this compound; R-06 = matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.; H-01 = recommended sample holding time was exceeded, but analysis was performed before two times the allowable holding time.

Table 2

IRM Waste Characterization Sample Data - Water
5140 Site
Yorkville, New York

Sample ID: WC-drums
Date Sampled: 2/11/2014

Polychlorinated Biphenyls (µg/l)

Aroclor 1016	0.20 U
Aroclor 1221	0.20 U
Aroclor 1232	0.20 U
Aroclor 1242	0.20 U
Aroclor 1248	0.20 U
Aroclor 1254	0.20 U
Aroclor 1260	0.74
Aroclor 1262	0.20 U
Aroclor 1268	0.20 U

VOCs (µg/l)

Acetone	500 U
Acrylonitrile	50 U
tert-Amyl Methyl Ether (TAME)	5.0 U
Benzene	10 U
Bromobenzene	10 U
Bromochloromethane	10 U
Bromodichloromethane	5.0 U
Bromoform	10 U, V-05
Bromomethane	20 U
2-Butanone (MEK)	200 U
tert-Butyl Alcohol (TBA)	200 U, R-05
n-Butylbenzene	20 U
sec-Butylbenzene	10 U
tert-Butylbenzene	10 U
tert-Butyl Ethyl Ether (TBEE)	5.0 U
Carbon Disulfide	40 U
Carbon Tetrachloride	50 U
Chlorobenzene	10 U
Chlorodibromomethane	5.0 U
Chloroethane	20 U
Chloroform	20 U
Chloromethane	20 U
2-Chlorotoluene	10 U
4-Chlorotoluene	10 U
1,2-Dibromo-3-chloropropane	50 U
1,2-Dibromoethane (EDB)	5.0 U
Dibromomethane	10 U
1,2-Dichlorobenzene	10 U
1,3-Dichlorobenzene	10 U
1,4-Dichlorobenzene	10 U
trans-1,4-Dichloro-2-butene	20 U
Dichlorodifluoromethane (Freon 12)	20 U
1,1-Dichloroethane	10 U

Table 2

IRM Waste Characterization Sample Data - Water
5140 Site
Yorkville, New York

Sample ID: WC-drums
Date Sampled: 2/11/2014

VOCs (µg/l) (Continued)

1,2-Dichloroethane	10 U
1,1-Dichloroethylene	10 U
cis-1,2-Dichloroethylene	10 U
trans-1,2-Dichloroethylene	10 U
1,2-Dichloropropane	10 U
1,3-Dichloropropane	5.0 U
2,2-Dichloropropane	10 U
1,1-Dichloropropene	20 U
cis-1,3-Dichloropropene	5.0 U
trans-1,3-Dichloropropene	5.0 U
Diethyl Ether	20 U
Diisopropyl Ether (DIPE)	5.0 U
1,4-Dioxane	500 U, V-16
Ethylbenzene	10 U
Hexachlorobutadiene	5.0 U
2-Hexanone (MBK)	100 U
sopropylbenzene (Cumene)	10 U
p-Isopropyltoluene (p-Cymene)	10 U
Methyl tert-Butyl Ether (MTBE)	10 U
Methylene Chloride	50 U
4-Methyl-2-pentanone (MIBK)	100 U
Naphthalene	20 U
n-Propylbenzene	10 U
Styrene	10 U
1,1,1,2-Tetrachloroethane	10 U
1,1,2,2-Tetrachloroethane	5.0 U
Tetrachloroethylene	10 U
Tetrahydrofuran	100 U
Toluene	10 U
1,2,3-Trichlorobenzene	50 U
1,2,4-Trichlorobenzene	10 U
1,3,5-Trichlorobenzene	10 U
1,1,1-Trichloroethane	10 U
1,1,2-Trichloroethane	10 U
Trichloroethylene	10 U
Trichlorofluoromethane (Freon 11)	20 U
1,2,3-Trichloropropane	20 U
1,1,2-Trichloro-1,2,2-trifluoroethane	10 U
1,2,4-Trimethylbenzene	10 U
1,3,5-Trimethylbenzene	10 U
Vinyl Chloride	20 U
m+p Xylene	20 U
o-Xylene	10 U

Table 2

IRM Waste Characterization Sample Data - Water
5140 Site
Yorkville, New York

Sample ID:	WC-drums
Date Sampled:	<u>2/11/2014</u>
SVOCs (µg/l)	
Acenaphthene	5.0 U
Acenaphthylene	5.0 U
Acetophenone	10 U
Aniline	5.0 U
Anthracene	5.0 U
Benzidine	20 U, R-05
Benzo(a)anthracene	5.0 U
Benzo(a)pyrene	5.0 U
Benzo(b)fluoranthene	5.0 U
Benzo(g,h,i)perylene	5.0 U
Benzo(k)fluoranthene	5.0 U
Benzoic Acid	10 U, V-05
Bis(2-chloroethoxy)methane	10 U
Bis(2-chloroethyl)ether	10 U
Bis(2-chloroisopropyl)ether	10 U
Bis(2-Ethylhexyl)phthalate	25
4-Bromophenylphenylether	10 U
Butylbenzylphthalate	10 U
Carbazole	10 U
4-Chloroaniline	10 U
4-Chloro-3-methylphenol	10 U
2-Chloronaphthalene	10 U
2-Chlorophenol	10 U
4-Chlorophenylphenylether	10 U
Chrysene	5.0 U
Dibenz(a,h)anthracene	5.0 U
Dibenzofuran	5.0 U
Di-n-butylphthalate	10 U
1,2-Dichlorobenzene	5.0 U
1,3-Dichlorobenzene	5.0 U
1,4-Dichlorobenzene	5.0 U
3,3-Dichlorobenzidine	10 U
2,4-Dichlorophenol	10 U
Diethylphthalate	10 U
2,4-Dimethylphenol	10 U
Dimethylphthalate	10 U
4,6-Dinitro-2-methylphenol	10 U, V-05
2,4-Dinitrophenol	10 U, V-05, V-19
2,4-Dinitrotoluene	10 U, R-05
2,6-Dinitrotoluene	10 U
Di-n-octylphthalate	10 U, V-05
1,2-Diphenylhydrazine	10 U
Fluoranthene	5.0 U, R-05
Fluorene	5.0 U

Table 2

IRM Waste Characterization Sample Data - Water
5140 Site
Yorkville, New York

Sample ID: WC-drums
Date Sampled: 2/11/2014

SVOCs (µg/l) (Continued)

Hexachlorobenzene	10 U
Hexachlorobutadiene	10 U
Hexachlorocyclopentadiene	10 U
Hexachloroethane	10 U
Indeno(1,2,3-cd)pyrene	5.0 U
Isophorone	10 U
1-Methylnaphthalene	5.0 U
2-Methylnaphthalene	5.0 U
2-Methylphenol	10 U, R-05
3/4-Methylphenol	10 U, R-05
Naphthalene	5.0 U
2-Nitroaniline	10 U
3-Nitroaniline	10 U
4-Nitroaniline	10 U, R-05
Nitrobenzene	10 U
2-Nitrophenol	10 U, V-05
4-Nitrophenol	10 U
N-Nitrosodimethylamine	10 U, L-04
N-Nitrosodiphenylamine	10 U
N-Nitrosodi-n-propylamine	10 U, R-05
Pentachloronitrobenzene	10 U, V-16
Pentachlorophenol	10 U
Phenanthrene	5.0 U
Phenol	10 U, R-05
Pyrene	5.0 U
Pyridine	5.0 U
1,2,4,5-Tetrachlorobenzene	10 U
1,2,4-Trichlorobenzene	5.0 U
2,4,5-Trichlorophenol	10 U
2,4,6-Trichlorophenol	10 U

Metals (mg/l)

Arsenic	0.050
Barium	0.97
Cadmium	0.0043
Chromium	0.18
Lead	0.12
Mercury	0.0054
Selenium	0.050 U
Silver	0.0050 U

Table 2

IRM Waste Characterization Sample Data - Water
5140 Site
Yorkville, New York

Sample ID:	WC-drums
Date Sampled:	<u>2/11/2014</u>
Flashpoint (degrees F)	>200
pH (S.U.)	8.2 H-05

a/ PCBs = polychlorinated biphenyls; mg/l = milligram per liter; ug/l = microgram per liter; U = analyte not detected above laboratory detection limits; VOCs = volatile organic compounds; SVOCs = semi-volatile organic compounds; S.U. = standard units; bold = compound detected above the reporting limit; L-04 = laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.; V-05= continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side; R-05 = laboratory fortified blank duplicate relative percent difference is outside of control limits. Reduced precision is anticipated for any reported value for this compound; V-16 = Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.; V-19 = Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.; H-05 = holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15-minute holding time was exceeded.

Table 3

**IRM Confirmation Soil Sample Data - Berm Removal Area
5140 Site
Yorkville, New York**

Sample ID: Sample Depth (ft bgs): Date Sampled:	Evaluation Criteria (b)	BERM 5N-5E 0-0.5 <u>2/17/2014</u>	BERM 5N-15E 0-0.5 <u>2/17/2014</u>	BERM 5N-25E 0-0.5 <u>2/17/2014</u>	BERM 5N-22E 1-1.5 <u>2/25/2014</u>	BERM 5N-27E 1-1.5 <u>2/25/2014</u>	BERM 5N-35E 0-0.5 <u>2/17/2014</u>	BERM 5N-32E 1-1.5 <u>2/25/2014</u>	BERM 5N-37E 1-1.5 <u>2/25/2014</u>	BERM 5N-45E 0-0.5 <u>2/17/2014</u>
Polychlorinated Biphenyls (mg/kg)										
Aroclor 1016	-	0.26 U	0.26 U	2.2 U	0.024 U	0.025 U	2.2 U	0.024 U	0.024 U	0.43 U
Aroclor 1221	-	0.26 U	0.26 U	2.2 U	0.024 U	0.025 U	2.2 U	0.024 U	0.024 U	0.43 U
Aroclor 1232	-	0.26 U	0.26 U	2.2 U	0.024 U	0.025 U	2.2 U	0.024 U	0.024 U	0.43 U
Aroclor 1242	-	0.26 U	0.26 U	2.2 U	0.024 U	0.025 U	2.2 U	0.024 U	0.024 U	0.43 U
Aroclor 1248	-	0.26 U	0.26 U	2.2 U	0.024 U	0.025 U	2.2 U	0.024 U	0.024 U	0.43 U
Aroclor 1254	-	0.26 U	0.26 U	2.2 U	0.024 U	0.025 U	2.2 U	0.024 U	0.024 U	0.43 U
Aroclor 1260	-	0.56 J	1.6 J	11	0.024 U	0.021 J	20 J	0.037	0.024 U	3.1
Aroclor 1262	-	0.26 U	0.26 U	2.2 U	0.024 U	0.025 U	2.2 U	0.024 U	0.024 U	0.43 U
Aroclor 1268	-	0.26 U	0.26 U	2.2 U	0.024 U	0.025 U	2.2 U	0.024 U	0.024 U	0.43 U
Total PCBs (c)	25	0.56 J	1.6 J	11	ND	0.021 J	20 J	0.037	ND	3.1
Sample ID: Sample Depth (ft bgs): Date Sampled:	Evaluation Criteria (b)	BERM 5N-55E 0-0.5 <u>2/17/2014</u>	BERM 5N-52E 1-1.5 <u>2/25/2014</u>	BERM 5N-57E 1-1.5 <u>2/25/2014</u>	BERM 5N-65E 0-0.5 <u>2/17/2014</u>	BERM 5N-75E 0-0.5 <u>2/17/2014</u>	BERM 5N-85E 0-0.5 <u>2/17/2014</u>	BERM 5N-95E 0-0.5 <u>2/17/2014</u>	BERM 5N-105E 0-0.5 <u>2/18/2014</u>	BERM 5N-115E 0-0.5 <u>2/18/2014</u>
Polychlorinated Biphenyls (mg/kg)										
Aroclor 1016	-	11 U	0.022 U	0.052 U	0.23 U	1.2 U	0.021 U	0.21 U	0.27 U	13 U
Aroclor 1221	-	11 U	0.022 U	0.052 U	0.23 U	1.2 U	0.021 U	0.21 U	0.27 U	13 U
Aroclor 1232	-	11 U	0.022 U	0.052 U	0.23 U	1.2 U	0.021 U	0.21 U	0.27 U	13 U
Aroclor 1242	-	11 U	0.022 U	0.052 U	0.23 U	1.2 U	0.021 U	0.21 U	0.27 U	13 U
Aroclor 1248	-	11 U	0.022 U	0.052 U	0.23 U	1.2 U	0.021 U	0.21 U	0.27 U	13 U
Aroclor 1254	-	11 U	0.022 U	0.052 U	0.34	1.2 U	0.16 J	0.21 U	0.27 U	13 U
Aroclor 1260	-	42	0.022 U	0.41	0.70	6.4	0.098	0.37 J	1.1	43
Aroclor 1262	-	11 U	0.022 U	0.052 U	0.23 U	1.2 U	0.021 U	0.21 U	0.27 U	13 U
Aroclor 1268	-	11 U	0.022 U	0.052 U	0.23 U	1.2 U	0.021 U	0.21 U	0.27 U	13 U
Total PCBs (c)	25	42	ND	0.41	1.0	6.4	0.26 J	0.37 J	1.1	43
Sample ID: Sample Depth (ft bgs): Date Sampled:	Evaluation Criteria (b)	BERM 5N-112E 1-1.5 <u>2/25/2014</u>	BERM 5N-117E 1-1.5 <u>2/25/2014</u>	BERM 5N-125E 0-0.5 <u>2/18/2014</u>	BERM 5N-122E 2-2.5 <u>2/26/2014</u>	BERM 5N-127E 2-2.5 <u>2/26/2014</u>	BERM 0N-125E 1 <u>2/26/2014</u>	BERM 10N-125E 1 <u>2/26/2014</u>	BERM 5N-135E 0-0.5 <u>2/18/2014</u>	BERM 5N-132E 2-2.5 <u>2/26/2014</u>
Polychlorinated Biphenyls (mg/kg)										
Aroclor 1016	-	0.12 U	0.12 U	14 U	0.045 U	0.22 U	0.023 U	0.022 U	25 U	0.23 U
Aroclor 1221	-	0.12 U	0.12 U	14 U	0.045 U	0.22 U	0.023 U	0.022 U	25 U	0.23 U
Aroclor 1232	-	0.12 U	0.12 U	14 U	0.045 U	0.22 U	0.023 U	0.022 U	25 U	0.23 U
Aroclor 1242	-	0.12 U	0.12 U	14 U	0.045 U	0.22 U	0.023 U	0.022 U	25 U	0.23 U
Aroclor 1248	-	0.12 U	0.12 U	16	0.045 U	0.22 U	0.023 U	0.022 U	16 J	0.23 U
Aroclor 1254	-	0.12 U	0.12 U	14 U	0.045 U	0.22 U	0.023 U	0.022 U	25 U	0.23 U
Aroclor 1260	-	1.1	0.67	85	0.38	1.1	0.057	0.036	130	1.2
Aroclor 1262	-	0.12 U	0.12 U	14 U	0.045 U	0.22 U	0.023 U	0.022 U	25 U	0.23 U
Aroclor 1268	-	0.12 U	0.12 U	14 U	0.045 U	0.22 U	0.023 U	0.022 U	25 U	0.23 U
Total PCBs (c)	25	1.1	0.67	101	0.38	1.1	0.057	0.036	146 J	1.2

Table 3

**IRM Confirmation Soil Sample Data - Berm Removal Area
5140 Site
Yorkville, New York**

Sample ID: Sample Depth (ft bgs): Date Sampled:	Evaluation Criteria (b)	BERM 5N-137E 2-2.5 <u>2/26/2014</u>	BERM 0N-135E 1 <u>2/26/2014</u>	BERM 10N-135E 1 <u>2/26/2014</u>	BERM 5N-145E 0-0.5 <u>2/18/2014</u>	BERM 10N-145E (c) 0-0.5 <u>2/18/2014</u>	BERM 5N-142E 2-2.5 <u>2/26/2014</u>	BERM 5N-147E 2-2.5 <u>2/26/2014</u>	BERM 0N-145E 1 <u>2/26/2014</u>	BERM 10N-145E 1 <u>2/26/2014</u>
Polychlorinated Biphenyls (mg/kg)										
Aroclor 1016	-	0.23 U	0.046 U	0.023 U	26 U	25 U	0.12 U	0.12 U	0.023 U	0.11 U
Aroclor 1221	-	0.23 U	0.046 U	0.023 U	26 U	25 U	0.12 U	0.12 U	0.023 U	0.11 U
Aroclor 1232	-	0.23 U	0.046 U	0.023 U	26 U	25 U	0.12 U	0.12 U	0.023 U	0.11 U
Aroclor 1242	-	0.23 U	0.046 U	0.023 U	26 U	25 U	0.12 U	0.12 U	0.023 U	0.11 U
Aroclor 1248	-	0.23 U	0.046 U	0.023 U	32	25 U	0.12 U	0.12 U	0.023 U	0.11 U
Aroclor 1254	-	0.23 U	0.046 U	0.023 U	26 U	25 U	0.12 U	0.12 U	0.023 U	0.11 U
Aroclor 1260	-	0.19 J	0.40	0.023 U	180	110	0.89 J	0.55	0.036	0.5
Aroclor 1262	-	0.23 U	0.046 U	0.023 U	26 U	25 U	0.12 U	0.12 U	0.023 U	0.11 U
Aroclor 1268	-	0.23 U	0.046 U	0.023 U	26 U	25 U	0.12 U	0.12 U	0.023 U	0.11 U
Total PCBs (c)	25	0.19 J	0.40	ND	212	110	0.89 J	0.55	0.036	0.5
Sample ID: Sample Depth (ft bgs): Date Sampled:	Evaluation Criteria (b)	BERM 5N-155E 0-0.5 <u>2/19/2014</u>	BERM 5N-152E 2-2.5 <u>2/26/2014</u>	BERM 5N-157E 2-2.5 <u>2/26/2014</u>	BERM 0N-155E 1 <u>2/26/2014</u>	BERM 10N-155E 1 <u>2/26/2014</u>	BERM 5N-165E 0-0.5 <u>2/19/2014</u>	BERM 5N-162E 1-1.5 <u>2/25/2014</u>	BERM 5N-167E 1-1.5 <u>2/25/2014</u>	BERM 5N-175E 0-0.5 <u>2/19/2014</u>
Polychlorinated Biphenyls (mg/kg)										
Aroclor 1016	-	5.3 U	0.23 U	0.23 U	0.023 U	0.022 U	1.3 U	0.24 U	0.12 U	0.67 U
Aroclor 1221	-	5.3 U	0.23 U	0.23 U	0.023 U	0.022 U	1.3 U	0.24 U	0.12 U	0.67 U
Aroclor 1232	-	5.3 U	0.23 U	0.23 U	0.023 U	0.022 U	1.3 U	0.24 U	0.12 U	0.67 U
Aroclor 1242	-	5.3 U	0.23 U	0.23 U	0.023 U	0.022 U	1.3 U	0.24 U	0.12 U	0.67 U
Aroclor 1248	-	5.3 U	0.23 U	0.23 U	0.023 U	0.022 U	1.3 U	0.15 J	0.12 U	1.2
Aroclor 1254	-	9.1	0.23 U	0.23 U	0.023 U	0.022 U	2.9	0.24 U	0.12 U	2.2
Aroclor 1260	-	26	2.1	1.8	0.16	0.022 U	7.6	1.9	0.64	5.4
Aroclor 1262	-	5.3 U	0.23 U	0.23 U	0.023 U	0.022 U	1.3 U	0.24 U	0.12 U	0.67 U
Aroclor 1268	-	5.3 U	0.23 U	0.23 U	0.023 U	0.022 U	1.3 U	0.24 U	0.12 U	0.67 U
Total PCBs (c)	25	35.1	2.1	1.8	0.16	ND	10.5	2.1 J	0.64	8.8
Sample ID: Date Sampled: Sample Depth (ft bgs):	Evaluation Criteria (b)	BERM 5N-185E 0-0.5 <u>2/19/2014</u>	BERM 5N-182E 1-1.5 <u>2/25/2014</u>	BERM 5N-187E 1-1.5 <u>2/25/2014</u>	BERM 5N-195E 0-0.5 <u>2/19/2014</u>	BERM 5N-192E 2-2.5 <u>2/26/2014</u>	BERM 5N-197E 2-2.5 <u>2/26/2014</u>	BERM 0N-195E 1 <u>2/26/2014</u>	BERM 10N-195E 1 <u>2/26/2014</u>	BERM 5N-200E 1 <u>2/26/2014</u>
Polychlorinated Biphenyls (mg/kg)										
Aroclor 1016	-	2.5 U	0.024 U	0.024 U	12 U	0.23 U	0.24 U	0.025 U	0.023 U	0.026 U
Aroclor 1221	-	2.5 U	0.024 U	0.024 U	12 U	0.23 U	0.24 U	0.025 U	0.023 U	0.026 U
Aroclor 1232	-	2.5 U	0.024 U	0.024 U	12 U	0.23 U	0.24 U	0.025 U	0.023 U	0.026 U
Aroclor 1242	-	2.5 U	0.024 U	0.024 U	12 U	1.2 J	0.24 U	0.025 U	0.023 U	0.026 U
Aroclor 1248	-	2.5 U	0.024 U	0.024 U	12 U	0.23 U	0.24 U	0.025 U	0.023 U	0.026 U
Aroclor 1254	-	6.0	0.024 U	0.024 U	18	1.0	0.30	0.023 J	0.023 U	0.026 U
Aroclor 1260	-	16	0.15	0.092	56	1.4	1.0	0.064	0.023 U	0.026 U
Aroclor 1262	-	2.5 U	0.024 U	0.024 U	12 U	0.23 U	0.24 U	0.025 U	0.023 U	0.026 U
Aroclor 1268	-	2.5 U	0.024 U	0.024 U	12 U	0.23 U	0.24 U	0.025 U	0.023 U	0.026 U
Total PCBs (c)	25	22	0.15	0.092	74	3.6 J	1.3	0.087 J	ND	ND

Table 3

IRM Confirmation Soil Sample Data - Berm Removal Area
5140 Site
Yorkville, New York

Sample ID: Sample Depth (ft bgs): Date Sampled:	Evaluation Criteria (b)	BERM 5N-205E 0-0.5 <u>2/19/2014</u>	BERM 10N-205E (e) 0-0.5 <u>2/19/2014</u>	BERM 5N-215E 0-0.5 <u>2/20/2014</u>	BERM 5N-225E 0-0.5 <u>2/20/2014</u>	BERM 5N-235E 0-0.5 <u>2/20/2014</u>	BERM 5N-245E 0-0.5 <u>2/20/2014</u>	BERM 10N-245E (f) 0-0.5 <u>2/20/2014</u>
Polychlorinated Biphenyls (mg/kg)								
Aroclor 1016	-	0.72 U	0.70 U	0.26 U	0.25 U	0.24 U	0.46 U	0.23 U
Aroclor 1221	-	0.72 U	0.70 U	0.26 U	0.25 U	0.24 U	0.46 U	0.23 U
Aroclor 1232	-	0.72 U	0.70 U	0.26 U	0.25 U	0.24 U	0.46 U	0.23 U
Aroclor 1242	-	0.72 U	0.70 U	0.26 U	0.25 U	0.24 U	0.46 U	0.23 U
Aroclor 1248	-	0.72 U	0.70 U	0.34	0.19 J	0.15 J	0.46 U	0.24
Aroclor 1254	-	1.2	2.0	1.0	0.56	0.48	0.93	0.67
Aroclor 1260	-	3.3	2.8	2.7	1.4	1.5	3.5	2.6
Aroclor 1262	-	0.72 U	0.70 U	0.26 U	0.25 U	0.24 U	0.46 U	0.23 U
Aroclor 1268	-	0.72 U	0.70 U	0.26 U	0.25 U	0.24 U	0.46 U	0.23 U
Total PCBs (c)	25	4.5	4.8	4.0	2.2 J	2.1 J	4.4	3.5

a/ Bold = compound detected above the reporting limit; PCBs = polychlorinated biphenyls; ft bgs = feet below ground surface; mg/kg = milligram per kilogram; U = analyte not detected above laboratory detection limits; J = estimated result; ND = not detected.

b/ Evaluation Criteria are from Title 6, New York Codes, Rules and Regulations, Part 375 Industrial Restricted Use Soil Cleanup Objectives.

c/ Total PCBs = the sum of detected individual Aroclor concentrations.

d/ Sample BERM 10N-145E is a duplicate sample of BERM 5N-145E.

e/ Sample BERM 10N-205E is a duplicate sample of BERM 5N-205E.

f/ Sample BERM 10N-245E is a duplicate sample of BERM 5N-245E.

Table 4

IRM Confirmation Soil Sample Data - Sub-Slab Area
5140 Site
Yorkville, New York

Sample ID: Sample Depth (ft bgs): Date Sampled:	Evaluation Criteria (b)	SLAB 5N-15E 0-0.5 <u>2/26/2014</u>	SLAB 5N-25E 0-0.5 <u>2/26/2014</u>	SLAB 5N-35E 0-0.5 <u>2/26/2014</u>	SLAB 5N-45E 0-0.5 <u>2/26/2014</u>	SLAB 15N-5E 0-0.5 <u>2/26/2014</u>	SLAB 15N-15E 0-0.5 <u>2/26/2014</u>	SLAB 15N-5E 0-0.5 <u>2/26/2014</u>	SLAB 15N-15E 0-0.5 <u>2/26/2014</u>	SLAB 20N-20E (d) 0-0.5 <u>2/26/2014</u>	SLAB 15N-25E 0-0.5 <u>2/26/2014</u>
Polychlorinated Biphenyls (mg/kg)											
Aroclor 1016	-	0.025 U	0.025 U	0.045 U	0.22 U	0.11 U	0.025 U	0.11 U	0.025 U	0.025 U	0.026 U
Aroclor 1221	-	0.025 U	0.025 U	0.045 U	0.22 U	0.11 U	0.025 U	0.11 U	0.025 U	0.025 U	0.026 U
Aroclor 1232	-	0.025 U	0.025 U	0.045 U	0.22 U	0.11 U	0.025 U	0.11 U	0.025 U	0.025 U	0.026 U
Aroclor 1242	-	0.025 U	0.025 U	0.045 U	0.22 U	0.11 U	0.025 U	0.11 U	0.025 U	0.025 U	0.026 U
Aroclor 1248	-	0.025 U	0.025 U	0.038 J	0.22 U	0.11 U	0.025 U	0.11 U	0.025 U	0.025 U	0.026 U
Aroclor 1254	-	0.025 U	0.025 U	0.045 U	0.22 U	0.11 U	0.025 U	0.11 U	0.025 U	0.025 U	0.026 U
Aroclor 1260	-	0.025 U	0.017 J	0.44	1.8	0.75	0.062	0.75	0.062	0.023 J	0.094
Aroclor 1262	-	0.025 U	0.025 U	0.045 U	0.22 U	0.11 U	0.025 U	0.11 U	0.025 U	0.025 U	0.026 U
Aroclor 1268	-	0.025 U	0.025 U	0.045 U	0.22 U	0.11 U	0.025 U	0.11 U	0.025 U	0.025 U	0.026 U
Total PCBs (c)	25	ND	0.017 J	0.48 J	1.8	0.75	0.062	0.75	0.062	0.023 J	0.094

Sample ID: Sample Depth (ft bgs): Date Sampled:	Evaluation Criteria (b)	SLAB 15N-35E 0-0.5 <u>2/26/2014</u>	SLAB 15N-45E 0-0.5 <u>2/26/2014</u>	SLAB 25N-5E 0-0.5 <u>2/26/2014</u>	SLAB 25N-15E 0-0.5 <u>2/26/2014</u>	SLAB 25N-25E 0-0.5 <u>3/6/2014</u>	SLAB 25N-35E 0-0.5 <u>3/6/2014</u>	SLAB 25N-45E 0-0.5 <u>3/6/2014</u>	SLAB 35N-5E 0-0.5 <u>2/18/2014</u>	SLAB 35N-15E 0-0.5 <u>2/18/2014</u>	SLAB 35N-25E 0-0.5 <u>2/18/2014</u>
Polychlorinated Biphenyls (mg/kg)											
Aroclor 1016	-	0.023 U	0.025 U	0.022 U	0.022 U	0.021 U	0.021 U	0.020 U	0.022 U	1.1 U	1.1 U
Aroclor 1221	-	0.023 U	0.025 U	0.022 U	0.022 U	0.021 U	0.021 U	0.020 U	0.022 U	1.1 U	1.1 U
Aroclor 1232	-	0.023 U	0.025 U	0.022 U	0.022 U	0.021 U	0.021 U	0.020 U	0.022 U	1.1 U	1.1 U
Aroclor 1242	-	0.023 U	0.025 U	0.022 U	0.022 U	0.021 U	0.021 U	0.020 U	0.022 U	1.1 U	1.1 U
Aroclor 1248	-	0.038	0.025 U	0.022 U	0.022 U	0.021 U	0.021 U	0.020 U	0.022 U	1.1 U	1.1 U
Aroclor 1254	-	0.023 U	0.025 U	0.022 U	0.022 U	0.021 U	0.021 U	0.020 U	0.022 U	1.1 U	1.1 U
Aroclor 1260	-	0.21	0.065	0.10	0.013 J	0.021 U	0.031	0.020 U	0.17 J	7.6	4.4
Aroclor 1262	-	0.023 U	0.025 U	0.022 U	0.022 U	0.021 U	0.021 U	0.020 U	0.022 U	1.1 U	1.1 U
Aroclor 1268	-	0.023 U	0.025 U	0.022 U	0.022 U	0.021 U	0.021 U	0.020 U	0.022 U	1.1 U	1.1 U
Total PCBs (c)	25	0.248	0.065	0.10	0.013 J	ND	0.031	ND	0.17 J	7.6	4.4

Table 4

IRM Confirmation Soil Sample Data - Sub-Slab Area
5140 Site
Yorkville, New York

Sample ID: Sample Depth (ft bgs): Date Sampled:	Evaluation Criteria (b)	SLAB 35N-35E 0-0.5 <u>3/6/2014</u>	SLAB 35N-70E (e) 0-0.5 <u>3/6/2014</u>	SLAB 35N-45E 0-0.5 <u>3/6/2014</u>	SLAB 45N-5E 0-0.5 <u>2/18/2014</u>	SLAB 45N-5E 1-1.5 <u>2/21/2014</u>	SLAB 45N-15E 0-0.5 <u>2/18/2014</u>	SLAB 45N-15E 1-1.5 <u>2/21/2014</u>	SLAB 45N-25E 0-0.5 <u>2/18/2014</u>	SLAB 45N-25E 1-1.5 <u>2/21/2014</u>	SLAB 45N-35E 0-0.5 <u>2/18/2014</u>
Polychlorinated Biphenyls (mg/kg)											
Aroclor 1016	-	0.021 U	0.021 U	0.024 U	23 U	0.025 U	2.5 U	0.024 U	23 U	0.022 U	20 U
Aroclor 1221	-	0.021 U	0.021 U	0.024 U	23 U	0.025 U	2.5 U	0.024 U	23 U	0.022 U	20 U
Aroclor 1232	-	0.021 U	0.021 U	0.024 U	23 U	0.025 U	2.5 U	0.024 U	23 U	0.022 U	20 U
Aroclor 1242	-	0.021 U	0.021 U	0.024 U	23 U	0.025 U	2.5 U	0.024 U	23 U	0.022 U	20 U
Aroclor 1248	-	0.021 U	0.021 U	0.024 U	23 U	0.025 U	2.5 U	0.024 U	23 U	0.022 U	20 U
Aroclor 1254	-	0.029	0.021 U	0.024 U	23 U	0.025 U	2.5 U	0.024 U	23 U	0.022 U	20 U
Aroclor 1260	-	0.11	0.029	0.024 U	51	0.082	9.8	0.15	50	0.20	20 U
Aroclor 1262	-	0.021 U	0.021 U	0.024 U	23 U	0.025 U	2.5 U	0.024 U	23 U	0.022 U	20 U
Aroclor 1268	-	0.021 U	0.021 U	0.024 U	23 U	0.025 U	2.5 U	0.024 U	23 U	0.022 U	20 U
Total PCBs (c)	25	0.139	0.029	ND	51	0.082	9.8	0.15	50	0.20	ND

Sample ID: Sample Depth (ft bgs): Date Sampled:	Evaluation Criteria (b)	SLAB 45N-45E 0-0.5 <u>2/18/2014</u>	SLAB 55N-5E 0-0.5 <u>2/18/2014</u>	SLAB 55N-15E 0-0.5 <u>2/18/2014</u>	SLAB 55N-25E 0-0.5 <u>2/18/2014</u>	SLAB 55N-25E 1-1.5 <u>2/21/2014</u>	SLAB 55N-35E 0-0.5 <u>2/18/2014</u>	SLAB 55N-35E 1-1.5 <u>2/21/2014</u>	SLAB 55N-45E 0-0.5 <u>2/18/2014</u>
Polychlorinated Biphenyls (mg/kg)									
Aroclor 1016	-	0.22 U	0.22 U	4.5 U	23 U	0.023 U	23 U	0.022 UJ	0.24 U
Aroclor 1221	-	0.22 U	0.22 U	4.5 U	23 U	0.023 U	23 U	0.022 U	0.24 U
Aroclor 1232	-	0.22 U	0.22 U	4.5 U	23 U	0.023 U	23 U	0.022 U	0.24 U
Aroclor 1242	-	0.22 U	0.22 U	4.5 U	23 U	0.023 U	23 U	0.022 U	0.24 U
Aroclor 1248	-	0.22 U	0.22 U	4.5 U	23 U	0.023 U	23 U	0.022 U	0.24 U
Aroclor 1254	-	0.22 U	0.22 U	4.5 U	23 U	0.023 U	23 U	0.022 U	0.24 U
Aroclor 1260	-	0.52	1.4	20	59 J	0.039 J	41	0.22 J	1.8
Aroclor 1262	-	0.22 U	0.22 U	4.5 U	23 U	0.023 U	23 U	0.022 U	0.24 U
Aroclor 1268	-	0.22 U	0.22 U	4.5 U	23 U	0.023 U	23 U	0.022 U	0.24 U
Total PCBs (c)	25	0.52	1.4	20	59 J	0.039 J	41	0.22 J	1.8

a/ Bold = compound detected above the reporting limit; PCBs = polychlorinated biphenyls; ft bgs = feet below ground surface; mg/kg = milligram per kilogram; U = analyte not detected above laboratory detection limits; J = estimated result; ND = not detected; Grid cells SLAB 5N-5E and SLAB 55N-15E were excavated as part of the shoring installation and, thus, were not sampled (SLAB 5N-5E) or re-sampled (SLAB 55N-15E). See text for explanation.

b/ Evaluation Criteria are from Title 6, New York Codes, Rules and Regulations, Part 375 Industrial Restricted Use Soil Cleanup Objectives.

c/ Total PCBs = the sum of detected individual Aroclor concentrations.

d/ Sample SLAB 20N-20E is a duplicate sample of SLAB 15N-15E.

e/ Sample SLAB 35N-70E is a duplicate sample of SLAB 35N-35E.

Table 5

**IRM Confirmation Soil Sample Data - North Excavation Area
5140 Site
Yorkville, New York**

Sample ID:		EXC 60N-8E	EXC 58N-25E	EXC 63N-25E	EXC 68N-25E	EXC 58N-35E	EXC 63N-35E	EXC 54N-35E	EXC 68N-35E
Sample Depth (ft bgs):	Evaluation	14	6-7	12-13	6-7	6-7	12-13	11	6-7
Date Sampled:	Criteria (b)	<u>2/21/2014</u>	<u>2/25/2014</u>	<u>2/25/2014</u>	<u>2/25/2014</u>	<u>2/25/2014</u>	<u>2/25/2014</u>	<u>3/3/2014</u>	<u>2/25/2014</u>
Polychlorinated Biphenyls (mg/kg)									
Aroclor 1016	-	1,200 U	0.025 U	1.1 U	0.022 U	0.023 U	4.8 U	0.022 U	0.024 U
Aroclor 1221	-	1,200 U	0.025 U	1.1 U	0.022 U	0.023 U	4.8 U	0.022 U	0.024 U
Aroclor 1232	-	1,200 U	0.025 U	1.1 U	0.022 U	0.023 U	4.8 U	0.022 U	0.024 U
Aroclor 1242	-	1,200 U	0.025 U	1.1 U	0.022 U	0.023 U	4.8 U	0.022 U	0.024 U
Aroclor 1248	-	1,200 U	0.025 U	1.1 U	0.022 U	0.023 U	6.5	0.049	0.024 U
Aroclor 1254	-	1,200 U	0.025 U	1.1 U	0.022 U	0.023 U	4.8 U	0.022 U	0.024 U
Aroclor 1260	-	6,500	0.19	7.1	0.045 J	0.034	26 J	0.051	0.039 J
Aroclor 1262	-	1,200 U	0.025 U	1.1 U	0.022 U	0.023 U	4.8 U	0.022 U	0.024 U
Aroclor 1268	-	1,200 U	0.025 U	1.1 U	0.022 U	0.023 U	4.8 U	0.022 U	0.024 U
Total PCBs (c)	25	6,500	0.19	7.1	0.045 J	0.034	33 J	0.100	0.039 J
Sample ID:		EXC 58N-45E	EXC 63N-45E	EXC 68N-45E	EXC 63N-53E	EXC 0N-73E (d)			
Sample Depth (ft bgs):	Evaluation	6-7	12-13	6-7	6-7	6			
Date Sampled:	Criteria (b)	<u>2/25/2014</u>	<u>2/25/2014</u>	<u>2/25/2014</u>	<u>2/25/2014</u>	<u>3/3/2014</u>			
Polychlorinated Biphenyls (mg/kg)									
Aroclor 1016	-	0.023 U	0.48 U	0.044 U	0.22 U	0.025 U			
Aroclor 1221	-	0.023 U	0.48 U	0.044 U	0.22 U	0.025 U			
Aroclor 1232	-	0.023 U	0.48 U	0.044 U	0.22 U	0.025 U			
Aroclor 1242	-	0.023 U	0.48 U	0.044 U	0.22 U	0.025 U			
Aroclor 1248	-	0.093	0.31 J	0.35	0.45	0.043			
Aroclor 1254	-	0.230 U	0.48 U	0.044 U	0.22 U	0.025 U			
Aroclor 1260	-	0.25	4.1 J	0.33 J	2.4 J	0.12			
Aroclor 1262	-	0.023 U	0.48 U	0.044 U	0.22 U	0.025 U			
Aroclor 1268	-	0.023 U	0.48 U	0.044 U	0.22 U	0.025 U			
Total PCBs (c)	25	0.34	4.4 J	0.68 J	3.3 J	0.16			

a/ Bold = compound detected above reporting limit; PCBs = polychlorinated biphenyls; ft bgs = feet below ground surface; mg/kg = milligram per kilogram; U = analyte not detected above laboratory detect. limits; J = estimated result; ND = not detected.

b/ Evaluation Criteria are from Title 6, New York Codes, Rules and Regulations, Part 375 Industrial Restricted Use Soil Cleanup Objectives.

c/ Total PCBs = the sum of detected individual Aroclor concentrations.

d/ Sample EXC 0N-73E is a duplicate sample of EXC 0N-53E.

Table 6

IRM Confirmation Soil Sample Data - South Excavation Area
5140 Site
Yorkville, New York

Sample ID: Sample Depth (ft bgs): Date Sampled:	Evaluation Criteria (b)	EXC 0N-6E-7ft 7 <u>2/27/2014</u>	EXC 0N-6E-13ft 13 <u>2/27/2014</u>	EXC 5N-25E 6 <u>2/28/2014</u>	EXC 0N-25E 13-13.5 <u>2/28/2014</u>	EXC 0N-25E (South) 11 <u>3/6/2014</u>	EXC 5S-25E 6 <u>2/28/2014</u>	EXC 5N-35E 6 <u>3/3/2014</u>	EXC 0N-35E 12-12.5 <u>3/3/2014</u>	EXC 5S-35E 6 <u>3/3/2014</u>	EXC 8S-35E 7 <u>3/6/2014</u>
Polychlorinated Biphenyls (mg/kg)											
Aroclor 1016	-	0.23 U	0.46 U	0.023 U	11 U	0.022 U	0.024 U	0.025 U	0.24 U	99 U	0.022 U
Aroclor 1221	-	0.23 U	0.46 U	0.023 U	11 U	0.022 U	0.024 U	0.025 U	0.24 U	99 U	0.022 U
Aroclor 1232	-	0.23 U	0.46 U	0.023 U	11 U	0.022 U	0.024 U	0.025 U	0.24 U	99 U	0.022 U
Aroclor 1242	-	0.23 U	0.46	0.023 U	11 U	0.022 U	0.024 U	0.025 U	0.24 U	99 U	0.022 U
Aroclor 1248	-	0.23 U	0.46 U	0.023 U	11 U	0.022 J	0.090	0.048	0.17 J	830	0.022 U
Aroclor 1254	-	0.59	1.5	0.023 U	11 U	0.026	0.024 U	0.025 U	0.24 U	99 U	0.022 U
Aroclor 1260	-	1.5	4.1	0.041	81	0.14	0.23	0.029	1.2	370	0.022 U
Aroclor 1262	-	0.23 U	0.46 U	0.023 U	11 U	0.022 U	0.024 U	0.025 U	0.24 U	99 U	0.022 U
Aroclor 1268	-	0.23 U	0.46 U	0.023 U	11 U	0.022 U	0.024 U	0.025 U	0.24 U	99 U	0.022 U
Total PCBs (c)	25	2.1	6.1	0.041	81	0.19 J	0.32	0.077	1.4 J	1,200	ND

Sample ID: Sample Depth (ft bgs): Date Sampled:	Evaluation Criteria (b)	EXC 5N-45E 6 <u>3/3/2014</u>	EXC 0N-45E 12-12.5 <u>3/3/2014</u>	EXC 5S-45E 6 <u>3/3/2014</u>	EXC 0N-53E 6 <u>3/3/2014</u>

Polychlorinated Biphenyls (mg/kg)					
Aroclor 1016	-	0.024 U	1.2 U	0.24 U	0.026 U
Aroclor 1221	-	0.024 U	1.2 U	0.24 U	0.026 U
Aroclor 1232	-	0.024 U	1.2 U	0.24 U	0.026 U
Aroclor 1242	-	0.024 U	1.2 U	0.24 U	0.026 U
Aroclor 1248	-	0.024 U	3.0	0.24 U	0.049
Aroclor 1254	-	0.024 U	1.2 U	0.24 U	0.026 U
Aroclor 1260	-	0.024 U	4.4	2.2	0.16
Aroclor 1262	-	0.024 U	1.2 U	0.24 U	0.026 U
Aroclor 1268	-	0.024 U	1.2 U	0.24 U	0.026 U
Total PCBs (c)	25	ND	7.4	2.2	0.21

a/ Bold - compound detected above the reporting limit; PCBs = polychlorinated biphenyls; ft bgs = feet below ground surface; mg/kg = milligram per kilogram; U = analyte not detected above laboratory detection limits; J = estimated result; ND = not detected.

b/ Evaluation Criteria are from Title 6 New York Codes, Rules and Regulations, Part 375 Industrial Restricted Use Soil Cleanup Objectives.

c/ Total PCBs = the sum of detected individual Aroclor concentrations.

Table 7

Non-Hazardous Waste Shipment Data
5140 Site
Yorkville, New York

Scale Ticket Number	Date Excavated	Estimated Quantity (cy)	Actual Quantity (tons)	Soil Source	Description
1972328	02/17/14	7.55	12.23	Berm Excavation	From SW corner up to 15E
1972419	02/17/14	19.30	31.26	Berm Excavation	Berm removal from 15E to 30E
1972428	02/17/14	12.70	20.58	Berm Excavation	Berm removal from 30E to 45E
1972439	02/17/14	21.51	34.85	Berm Excavation	Berm removal from 45E to 60E
1972497	02/17/14	15.97	25.87	Berm Excavation	Berm removal from 60E to 75E
1972503	02/17/14	21.17	34.30	Berm Excavation	Berm removal from 75E to 90E
1972511	02/17/14	20.04	32.46	Berm Excavation	Berm removal from 90E to 105E
1972638	02/18/14	18.15	29.41	Berm Excavation	Berm removal from 105E to 120E
1972648	02/18/14	18.91	30.63	Berm Excavation	Berm removal from 120E to 135E
1972731	02/18/14	17.61	28.53	Berm Excavation	Berm removal from 135E to 150E
1973012	02/19/14	3.34	5.41	Debris from Pad	Debris and fencing removed from pad prior to demolition
1973139	02/19/14	19.47	31.54	Concrete Pad	Rubblized debris from concrete pad and aboveground foundation
1973117	02/19/14	22.19	35.95	Concrete Pad	Rubblized debris from concrete pad and aboveground foundation
1973124	02/19/14	12.14	19.66	Concrete Pad	Rubblized debris from concrete pad and aboveground foundation
1973144	02/19/14	12.90	20.89	Concrete Pad	Rubblized debris from concrete pad and aboveground foundation
1972939	02/19/14	12.52	20.28	Berm Excavation	Berm removal from 150E to 175E
1973070	02/19/14	12.14	19.67	Concrete Pad	Rubblized debris from concrete pad and aboveground foundation
1973071	02/19/14	20.46	33.15	Concrete and Berm	concrete pad rubble and Berm soil from 175E to 200E
1973211	02/19/14	18.78	30.43	Berm Excavation	Berm removal from 200E to 225E
1973303	02/20/14	20.67	33.49	Berm Excavation	Berm removal from 225E to SE corner of property
1973537	02/20/14	16.40	26.56	Berm Excavation	Berm removal from Hubbel Property, SW corner of site
1973656	02/21/14	20.80	33.70	Berm Excavation	Berm removal from Hubbel Property, SW corner of site
1973661	02/21/14	16.81	27.24	Berm Excavation	Berm removal Hubbel and 1-ft from 20E-40E and 50E-60E
1974188	02/24/14	18.63	30.18	Northern Excavation	Soil excavated from pilot hole for northern shoring box
1974358	02/24/14	15.48	25.07	Northern Excavation	Soil excavated from pilot hole for northern shoring box
1974591	02/25/14	21.09	34.17	Berm Excavation	Berm (1-ft): 110E-120E, 160E-170E, 180E-190E
1974690	02/25/14	15.96	25.86	Concrete Pad	Concrete debris from footer and below ground concrete (NH)
1975002	02/26/14	15.97	25.87	Concrete Pad	Concrete debris from footer and below ground concrete (NH)
1975426	02/27/14	19.33	31.31	Conc. and soil drums	Concrete debris from footer and drill cuttings from GW wells
NA	02/28/14			Concrete Pad	Reinforcing Steel for recycling
NA	03/06/14			Development Water	Drums of water from well developments
1977206	03/06/14	12.99	21.04	Northern Excavation	Additional excavation at 30E to 40E, base of north excavation
1977300	03/06/14	10.73	17.38	Northern Excavation	Additional excavation at 30E to 40E, base of north excavation
Totals		511.71	828.97		

Table 8

Hazardous Waste Shipment Data
5140 Site
Yorkville, New York

Hazardous Waste Manifest No.	Date Excavated	Actual Quantity (kg)	Estimated Quantity (cy)	Soil Source	Description
002233540	02/21/14	30,518	20.77	Northern Excavation	Soil excavated from inside shoring box
002233541	02/21/14	32,078	21.83	Northern Excavation	Soil excavated from inside shoring box
002233542	02/21/14	29,729	20.23	Northern/Sub-Slab Exc.	Soil from inside shoring box, and sub-slab soils from northern end
002233543	02/21/14	29,692	20.20	Sub-Slab Soils	Sub-slab soils from northern end of pad
002233544	02/24/14	31,752	21.61	Northern Excavation	Soil excavated from shoring box to 25 ft east
002233545	02/24/14	31,489	21.43	Northern Excavation	Soil excavated from shoring box to 25 ft east
002233546	02/24/14	29,783	20.27	Northern Excavation	Soil excavated from shoring box to 25 ft east
002233547	02/24/14	30,600	20.82	Northern Excavation	Soil excavated from shoring box to 25 ft east
002233548	02/25/14	31,643	21.53	Northern Excavation	Soil excavated from 25 ft east of bldg to end of planned excavation
002233549	02/25/14	32,069	21.82	Northern Excavation	Soil excavated from 25 ft east of bldg to end of planned excavation
002233550	02/25/14	29,556	20.11	Northern Excavation	Soil excavated from 25 ft east of bldg to end of planned excavation
002233551	02/25/14	30,799	20.96	Northern Excavation	Soil excavated from 25 ft east of bldg to end of planned excavation
002233552	02/26/14	31,062	21.14	Southern Excavation	Soil excavated from inside shoring box
002233553	02/26/14	31,198	21.23	Berm Excavation	Soil excavated from Berm 120E to 140E
002233554	02/26/14	30,318	20.63	Berm Excavation	Soil excavated from Berm 140E to 160E, and 190E to 200E
002233555	02/26/14	30,482	20.74	Southern Excavation	Soil excavated from inside shoring box
002233556	02/27/14	30,672	20.87	Southern Excavation	Soil excavated from inside shoring box
002233557	02/27/14	31,244	21.26	Southern Excavation	Soil excavated from inside shoring box
002233558	02/27/14	30,255	20.59	Southern Excavation	Soil excavated from inside shoring box
002233559	02/27/14	30,872	21.01	Southern Excavation	Soil excavated from inside shoring box
002233560	02/28/14	30,999	21.09	Southern Excavation	Soil excavated from shoring box to 25 ft east
002233561	02/28/14	31,706	21.57	Southern Excavation	Soil excavated from shoring box to 30 ft east
002233562	02/28/14	31,262	21.27	Southern Excavation	Soil excavated from shoring box to 30 ft east
002233563	02/28/14	30,092	20.48	Southern Excavation	Soil excavated from shoring box to 35 ft east
002233576	03/03/14	31,743	21.60	Southern Excavation	Soil excavated from 35 ft east to end of planned excavation
002233597	03/03/14	30,944	21.06	Southern Excavation	Soil excavated from 35 ft east to end of planned excavation
002233598	03/03/14	24,712	16.82	Southern Excavation	Soil excavated from 35 ft east to end of planned excavation
002233596	03/06/14	29,520	20.09	Southern Excavation	Base of excavation at 25E and south wall at 35E (GP-12 area)
Totals		856,789	582.99		

Appendix A – Laboratory Analytical Reports

February 13, 2014

Dave Bouchard
WSP
5 Sullivan Street
Cazenovia, NY 13035

Project Location: Yorkville, NY
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 14B0247

Enclosed are results of analyses for samples received by the laboratory on February 11, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", followed by a horizontal line.

Aaron L. Benoit
Project Manager



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

WSP
5 Sullivan Street
Cazenovia, NY 13035
ATTN: Dave Bouchard

REPORT DATE: 2/13/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14B0247

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

PROJECT LOCATION: Yorkville, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WC-N prox	14B0247-01	Soil		SM 2540G	
				SW-846 1030	
				SW-846 1311	
				SW-846 6010C	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9045C	
WC-SP	14B0247-02	Soil		SM 2540G	
				SW-846 1030	
				SW-846 1311	
				SW-846 6010C	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9045C	
WC-N dist	14B0247-03	Soil		SM 2540G	
				SW-846 1030	
				SW-846 1311	
				SW-846 6010C	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9045C	

CASE NARRATIVE SUMMARY

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

SW-846 8082A**Qualifications:**

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:**Aroclor-1260, Aroclor-1260 [2C]**B090214-MSD1

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:**Aroclor-1260, Aroclor-1260 [2C]**14B0247-03[WC-N dist]

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:**Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]**14B0247-01[WC-N prox]

SW-846 8260C**Qualifications:**

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**1,2-Dichloroethane**14B0247-01[WC-N prox], 14B0247-02[WC-SP], 14B0247-03[WC-N dist], B090315-BLK1, B090315-BS1, B090315-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**2-Butanone (MEK)**B090315-BS1, B090315-BSD1

SW-846 8270D**Qualifications:**

One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

Analyte & Samples(s) Qualified:**2,4,6-Tribromophenol**14B0247-01[WC-N prox], B090244-BLK1

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

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

A handwritten signature in black ink, appearing to read "M. Erickson", is written on a light gray rectangular background.

Michael A. Erickson
Laboratory Director

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0247

Date Received: 2/11/2014

Field Sample #: WC-N prox

Sampled: 2/10/2014 14:44

Sample ID: 14B0247-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	110	mg/Kg dry	5000		SW-846 8082A	2/11/14	2/12/14 9:27	JMB
Aroclor-1221 [1]	ND	110	mg/Kg dry	5000		SW-846 8082A	2/11/14	2/12/14 9:27	JMB
Aroclor-1232 [1]	ND	110	mg/Kg dry	5000		SW-846 8082A	2/11/14	2/12/14 9:27	JMB
Aroclor-1242 [1]	ND	110	mg/Kg dry	5000		SW-846 8082A	2/11/14	2/12/14 9:27	JMB
Aroclor-1248 [1]	ND	110	mg/Kg dry	5000		SW-846 8082A	2/11/14	2/12/14 9:27	JMB
Aroclor-1254 [1]	ND	110	mg/Kg dry	5000		SW-846 8082A	2/11/14	2/12/14 9:27	JMB
Aroclor-1260 [1]	770	110	mg/Kg dry	5000		SW-846 8082A	2/11/14	2/12/14 9:27	JMB
Aroclor-1262 [1]	ND	110	mg/Kg dry	5000		SW-846 8082A	2/11/14	2/12/14 9:27	JMB
Aroclor-1268 [1]	ND	110	mg/Kg dry	5000		SW-846 8082A	2/11/14	2/12/14 9:27	JMB
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			2/12/14 9:27	
Decachlorobiphenyl [2]	*	30-150			S-01			2/12/14 9:27	
Tetrachloro-m-xylene [1]	*	30-150			S-01			2/12/14 9:27	
Tetrachloro-m-xylene [2]	*	30-150			S-01			2/12/14 9:27	



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0247

Date Received: 2/11/2014

Field Sample #: WC-N prox

Sampled: 2/10/2014 14:44

Sample ID: 14B0247-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @19.6°C	8.2		pH Units	1		SW-846 9045C	2/11/14	2/11/14 13:35	LL
% Solids	89.5		% Wt	1		SM 2540G	2/11/14	2/11/14 15:57	WAL

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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0247

Date Received: 2/11/2014

Field Sample #: WC-N prox

Sampled: 2/10/2014 14:44

Sample ID: 14B0247-01

Sample Matrix: Soil

TCLP - Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 5:53	MFF
2-Butanone (MEK)	ND	0.20	mg/L	1		SW-846 8260C	2/13/14	2/13/14 5:53	MFF
Carbon Tetrachloride	ND	0.050	mg/L	1		SW-846 8260C	2/13/14	2/13/14 5:53	MFF
Chlorobenzene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 5:53	MFF
Chloroform	ND	0.020	mg/L	1		SW-846 8260C	2/13/14	2/13/14 5:53	MFF
1,4-Dichlorobenzene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 5:53	MFF
1,2-Dichloroethane	ND	0.010	mg/L	1	V-05	SW-846 8260C	2/13/14	2/13/14 5:53	MFF
1,1-Dichloroethylene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 5:53	MFF
Tetrachloroethylene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 5:53	MFF
Trichloroethylene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 5:53	MFF
Vinyl Chloride	ND	0.020	mg/L	1		SW-846 8260C	2/13/14	2/13/14 5:53	MFF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	87.3	70-130						2/13/14 5:53	
Toluene-d8	105	70-130						2/13/14 5:53	
4-Bromofluorobenzene	100	70-130						2/13/14 5:53	

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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0247

Date Received: 2/11/2014

Field Sample #: WC-N prox

Sampled: 2/10/2014 14:44

Sample ID: 14B0247-01

Sample Matrix: Soil

TCLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-Dinitrotoluene	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 13:14	CMR
Hexachlorobenzene	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 13:14	CMR
Hexachlorobutadiene	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 13:14	CMR
Hexachloroethane	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 13:14	CMR
2-Methylphenol	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 13:14	CMR
3/4-Methylphenol	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 13:14	CMR
Nitrobenzene	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 13:14	CMR
Pentachlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 13:14	CMR
Pyridine	ND	0.025	mg/L	1		SW-846 8270D	2/12/14	2/12/14 13:14	CMR
2,4,5-Trichlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 13:14	CMR
2,4,6-Trichlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 13:14	CMR
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorophenol	80.3		15-110				2/12/14 13:14		
Phenol-d6	79.8		15-110				2/12/14 13:14		
Nitrobenzene-d5	83.9		30-130				2/12/14 13:14		
2-Fluorobiphenyl	72.2		30-130				2/12/14 13:14		
2,4,6-Tribromophenol	120	*	15-110		S-07		2/12/14 13:14		
p-Terphenyl-d14	121		30-130				2/12/14 13:14		

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0247

Date Received: 2/11/2014

Field Sample #: WC-N prox

Sampled: 2/10/2014 14:44

Sample ID: 14B0247-01

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	0.032	0.010	mg/L	1		SW-846 6010C	2/12/14	2/12/14 16:55	OP
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	2/12/14	2/12/14 13:18	SAJ
Barium	0.33	0.050	mg/L	1		SW-846 6010C	2/12/14	2/12/14 14:21	OP
Cadmium	ND	0.0040	mg/L	1		SW-846 6010C	2/12/14	2/12/14 14:21	OP
Chromium	ND	0.010	mg/L	1		SW-846 6010C	2/12/14	2/12/14 14:21	OP
Lead	ND	0.010	mg/L	1		SW-846 6010C	2/12/14	2/12/14 16:55	OP
Selenium	ND	0.050	mg/L	1		SW-846 6010C	2/12/14	2/12/14 16:55	OP
Silver	ND	0.0050	mg/L	1		SW-846 6010C	2/12/14	2/12/14 14:21	OP



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0247

Date Received: 2/11/2014

Sampled: 2/10/2014 14:44

Field Sample #: WC-N prox

Sample ID: 14B0247-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Attached			1		SW-846 1030		2/12/14 0:00	PAL

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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0247

Date Received: 2/11/2014

Sampled: 2/10/2014 15:00

Field Sample #: WC-SP

Sample ID: 14B0247-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/11/14	2/12/14 9:40	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/11/14	2/12/14 9:40	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/11/14	2/12/14 9:40	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/11/14	2/12/14 9:40	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/11/14	2/12/14 9:40	JMB
Aroclor-1254 [2]	0.32	0.11	mg/Kg dry	5		SW-846 8082A	2/11/14	2/12/14 9:40	JMB
Aroclor-1260 [2]	0.21	0.11	mg/Kg dry	5		SW-846 8082A	2/11/14	2/12/14 9:40	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/11/14	2/12/14 9:40	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/11/14	2/12/14 9:40	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.1	30-150						2/12/14 9:40	
Decachlorobiphenyl [2]	85.0	30-150						2/12/14 9:40	
Tetrachloro-m-xylene [1]	88.1	30-150						2/12/14 9:40	
Tetrachloro-m-xylene [2]	89.3	30-150						2/12/14 9:40	



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0247

Date Received: 2/11/2014

Sampled: 2/10/2014 15:00

Field Sample #: WC-SP

Sample ID: 14B0247-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @19.3°C	8.5		pH Units	1		SW-846 9045C	2/11/14	2/11/14 13:35	LL
% Solids	90.0		% Wt	1		SM 2540G	2/11/14	2/11/14 15:57	WAL

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0247

Date Received: 2/11/2014

Sampled: 2/10/2014 15:00

Field Sample #: WC-SP

Sample ID: 14B0247-02

Sample Matrix: Soil

TCLP - Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 6:20	MFF
2-Butanone (MEK)	ND	0.20	mg/L	1		SW-846 8260C	2/13/14	2/13/14 6:20	MFF
Carbon Tetrachloride	ND	0.050	mg/L	1		SW-846 8260C	2/13/14	2/13/14 6:20	MFF
Chlorobenzene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 6:20	MFF
Chloroform	ND	0.020	mg/L	1		SW-846 8260C	2/13/14	2/13/14 6:20	MFF
1,4-Dichlorobenzene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 6:20	MFF
1,2-Dichloroethane	ND	0.010	mg/L	1	V-05	SW-846 8260C	2/13/14	2/13/14 6:20	MFF
1,1-Dichloroethylene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 6:20	MFF
Tetrachloroethylene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 6:20	MFF
Trichloroethylene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 6:20	MFF
Vinyl Chloride	ND	0.020	mg/L	1		SW-846 8260C	2/13/14	2/13/14 6:20	MFF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	89.4	70-130						2/13/14 6:20	
Toluene-d8	102	70-130						2/13/14 6:20	
4-Bromofluorobenzene	97.4	70-130						2/13/14 6:20	

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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0247

Date Received: 2/11/2014

Sampled: 2/10/2014 15:00

Field Sample #: WC-SP

Sample ID: 14B0247-02

Sample Matrix: Soil

TCLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-Dinitrotoluene	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 13:48	CMR
Hexachlorobenzene	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 13:48	CMR
Hexachlorobutadiene	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 13:48	CMR
Hexachloroethane	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 13:48	CMR
2-Methylphenol	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 13:48	CMR
3/4-Methylphenol	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 13:48	CMR
Nitrobenzene	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 13:48	CMR
Pentachlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 13:48	CMR
Pyridine	ND	0.025	mg/L	1		SW-846 8270D	2/12/14	2/12/14 13:48	CMR
2,4,5-Trichlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 13:48	CMR
2,4,6-Trichlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 13:48	CMR
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2-Fluorophenol	62.3	15-110						2/12/14 13:48	
Phenol-d6	62.2	15-110						2/12/14 13:48	
Nitrobenzene-d5	73.2	30-130						2/12/14 13:48	
2-Fluorobiphenyl	65.8	30-130						2/12/14 13:48	
2,4,6-Tribromophenol	105	15-110						2/12/14 13:48	
p-Terphenyl-d14	118	30-130						2/12/14 13:48	

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0247

Date Received: 2/11/2014

Sampled: 2/10/2014 15:00

Field Sample #: WC-SP

Sample ID: 14B0247-02

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	0.031	0.010	mg/L	1		SW-846 6010C	2/12/14	2/12/14 17:00	OP
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	2/12/14	2/12/14 13:23	SAJ
Barium	0.39	0.050	mg/L	1		SW-846 6010C	2/12/14	2/12/14 14:26	OP
Cadmium	ND	0.0040	mg/L	1		SW-846 6010C	2/12/14	2/12/14 14:26	OP
Chromium	ND	0.010	mg/L	1		SW-846 6010C	2/12/14	2/12/14 14:26	OP
Lead	0.050	0.010	mg/L	1		SW-846 6010C	2/12/14	2/12/14 17:00	OP
Selenium	ND	0.050	mg/L	1		SW-846 6010C	2/12/14	2/12/14 17:00	OP
Silver	ND	0.0050	mg/L	1		SW-846 6010C	2/12/14	2/12/14 14:26	OP



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0247

Date Received: 2/11/2014

Sampled: 2/10/2014 15:00

Field Sample #: WC-SP

Sample ID: 14B0247-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Attached			1		SW-846 1030		2/12/14 0:00	PAL

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0247

Date Received: 2/11/2014

Field Sample #: WC-N dist

Sampled: 2/10/2014 15:40

Sample ID: 14B0247-03

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/11/14	2/12/14 2:56	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/11/14	2/12/14 2:56	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/11/14	2/12/14 2:56	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/11/14	2/12/14 2:56	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/11/14	2/12/14 2:56	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/11/14	2/12/14 2:56	JMB
Aroclor-1260 [2]	0.22	0.11	mg/Kg dry	5	R-06	SW-846 8082A	2/11/14	2/12/14 2:56	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/11/14	2/12/14 2:56	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/11/14	2/12/14 2:56	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	72.3	30-150						2/12/14 2:56	
Decachlorobiphenyl [2]	74.2	30-150						2/12/14 2:56	
Tetrachloro-m-xylene [1]	84.3	30-150						2/12/14 2:56	
Tetrachloro-m-xylene [2]	89.4	30-150						2/12/14 2:56	

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0247

Date Received: 2/11/2014

Field Sample #: WC-N dist

Sampled: 2/10/2014 15:40

Sample ID: 14B0247-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @19.5°C	8.5		pH Units	1		SW-846 9045C	2/11/14	2/11/14 13:35	LL
% Solids	89.0		% Wt	1		SM 2540G	2/11/14	2/11/14 15:57	WAL

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Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0247

Date Received: 2/11/2014

Field Sample #: WC-N dist

Sampled: 2/10/2014 15:40

Sample ID: 14B0247-03

Sample Matrix: Soil

TCLP - Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 6:46	MFF
2-Butanone (MEK)	ND	0.20	mg/L	1		SW-846 8260C	2/13/14	2/13/14 6:46	MFF
Carbon Tetrachloride	ND	0.050	mg/L	1		SW-846 8260C	2/13/14	2/13/14 6:46	MFF
Chlorobenzene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 6:46	MFF
Chloroform	ND	0.020	mg/L	1		SW-846 8260C	2/13/14	2/13/14 6:46	MFF
1,4-Dichlorobenzene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 6:46	MFF
1,2-Dichloroethane	ND	0.010	mg/L	1	V-05	SW-846 8260C	2/13/14	2/13/14 6:46	MFF
1,1-Dichloroethylene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 6:46	MFF
Tetrachloroethylene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 6:46	MFF
Trichloroethylene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 6:46	MFF
Vinyl Chloride	ND	0.020	mg/L	1		SW-846 8260C	2/13/14	2/13/14 6:46	MFF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	90.1	70-130						2/13/14 6:46	
Toluene-d8	106	70-130						2/13/14 6:46	
4-Bromofluorobenzene	98.2	70-130						2/13/14 6:46	

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0247

Date Received: 2/11/2014

Field Sample #: WC-N dist

Sampled: 2/10/2014 15:40

Sample ID: 14B0247-03

Sample Matrix: Soil

TCLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-Dinitrotoluene	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 14:21	CMR
Hexachlorobenzene	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 14:21	CMR
Hexachlorobutadiene	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 14:21	CMR
Hexachloroethane	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 14:21	CMR
2-Methylphenol	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 14:21	CMR
3/4-Methylphenol	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 14:21	CMR
Nitrobenzene	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 14:21	CMR
Pentachlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 14:21	CMR
Pyridine	ND	0.025	mg/L	1		SW-846 8270D	2/12/14	2/12/14 14:21	CMR
2,4,5-Trichlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 14:21	CMR
2,4,6-Trichlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/12/14	2/12/14 14:21	CMR
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2-Fluorophenol	62.2	15-110						2/12/14 14:21	
Phenol-d6	64.8	15-110						2/12/14 14:21	
Nitrobenzene-d5	72.7	30-130						2/12/14 14:21	
2-Fluorobiphenyl	66.3	30-130						2/12/14 14:21	
2,4,6-Tribromophenol	97.9	15-110						2/12/14 14:21	
p-Terphenyl-d14	99.4	30-130						2/12/14 14:21	

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0247

Date Received: 2/11/2014

Field Sample #: WC-N dist

Sampled: 2/10/2014 15:40

Sample ID: 14B0247-03

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	0.030	0.010	mg/L	1		SW-846 6010C	2/12/14	2/12/14 17:06	OP
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	2/12/14	2/12/14 13:25	SAJ
Barium	0.39	0.050	mg/L	1		SW-846 6010C	2/12/14	2/12/14 14:30	OP
Cadmium	ND	0.0040	mg/L	1		SW-846 6010C	2/12/14	2/12/14 14:30	OP
Chromium	ND	0.010	mg/L	1		SW-846 6010C	2/12/14	2/12/14 14:30	OP
Lead	0.012	0.010	mg/L	1		SW-846 6010C	2/12/14	2/12/14 17:06	OP
Selenium	ND	0.050	mg/L	1		SW-846 6010C	2/12/14	2/12/14 17:06	OP
Silver	ND	0.0050	mg/L	1		SW-846 6010C	2/12/14	2/12/14 14:30	OP



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Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0247

Date Received: 2/11/2014

Sampled: 2/10/2014 15:40

Field Sample #: WC-N dist

Sample ID: 14B0247-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Attached			1		SW-846 1030		2/12/14 0:00	PAL

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
14B0247-01 [WC-N prox]	B090176	02/11/14
14B0247-02 [WC-SP]	B090176	02/11/14
14B0247-03 [WC-N dist]	B090176	02/11/14

Prep Method: SW-846 3010A-SW-846 6010C

Leachates were extracted on 2/11/2014 per SW-846 1311 in Batch B090174

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14B0247-01 [WC-N prox]	B090239	50.0	50.0	02/12/14
14B0247-02 [WC-SP]	B090239	50.0	50.0	02/12/14
14B0247-03 [WC-N dist]	B090239	50.0	50.0	02/12/14

Prep Method: SW-846 7470A Prep-SW-846 7470A

Leachates were extracted on 2/11/2014 per SW-846 1311 in Batch B090174

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14B0247-01 [WC-N prox]	B090251	6.00	6.00	02/12/14
14B0247-02 [WC-SP]	B090251	6.00	6.00	02/12/14
14B0247-03 [WC-N dist]	B090251	6.00	6.00	02/12/14

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14B0247-01 [WC-N prox]	B090214	10.3	10.0	02/11/14
14B0247-02 [WC-SP]	B090214	10.0	10.0	02/11/14
14B0247-03 [WC-N dist]	B090214	10.0	10.0	02/11/14

Prep Method: SW-846 5035-SW-846 8260C

Leachates were extracted on 2/12/2014 per SW-846 1311 in Batch B090268

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14B0247-01 [WC-N prox]	B090315	5.00	5.00	02/13/14
14B0247-02 [WC-SP]	B090315	5.00	5.00	02/13/14
14B0247-03 [WC-N dist]	B090315	5.00	5.00	02/13/14

Prep Method: SW-846 3510C-SW-846 8270D

Leachates were extracted on 2/11/2014 per SW-846 1311 in Batch B090174

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14B0247-01 [WC-N prox]	B090244	200	1.00	02/12/14
14B0247-02 [WC-SP]	B090244	200	1.00	02/12/14
14B0247-03 [WC-N dist]	B090244	200	1.00	02/12/14

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
14B0247-01 [WC-N prox]	B090186	20.0	02/11/14
14B0247-02 [WC-SP]	B090186	20.0	02/11/14
14B0247-03 [WC-N dist]	B090186	20.0	02/11/14

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090214 - SW-846 3546
Blank (B090214-BLK1)

Prepared: 02/11/14 Analyzed: 02/12/14

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.216		mg/Kg wet	0.200		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.198		mg/Kg wet	0.200		99.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.182		mg/Kg wet	0.200		91.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.200		mg/Kg wet	0.200		100	30-150			

LCS (B090214-BS1)

Prepared: 02/11/14 Analyzed: 02/12/14

Aroclor-1016	0.20	0.10	mg/Kg wet	0.200		98.0	40-140			
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		108	40-140			
Aroclor-1260	0.22	0.10	mg/Kg wet	0.200		108	40-140			
Aroclor-1260 [2C]	0.22	0.10	mg/Kg wet	0.200		112	40-140			
Surrogate: Decachlorobiphenyl	0.226		mg/Kg wet	0.200		113	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.207		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene	0.198		mg/Kg wet	0.200		99.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.215		mg/Kg wet	0.200		108	30-150			

LCS Dup (B090214-BSD1)

Prepared: 02/11/14 Analyzed: 02/12/14

Aroclor-1016	0.21	0.10	mg/Kg wet	0.200		106	40-140	7.50	30	
Aroclor-1016 [2C]	0.23	0.10	mg/Kg wet	0.200		116	40-140	6.60	30	
Aroclor-1260	0.23	0.10	mg/Kg wet	0.200		113	40-140	4.58	30	
Aroclor-1260 [2C]	0.24	0.10	mg/Kg wet	0.200		118	40-140	5.28	30	
Surrogate: Decachlorobiphenyl	0.234		mg/Kg wet	0.200		117	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.214		mg/Kg wet	0.200		107	30-150			
Surrogate: Tetrachloro-m-xylene	0.208		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.227		mg/Kg wet	0.200		113	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090214 - SW-846 3546
Matrix Spike (B090214-MS1)
Source: 14B0247-03

Prepared: 02/11/14 Analyzed: 02/12/14

Aroclor-1016	0.22	0.11	mg/Kg dry	0.225	ND	95.8	40-140			
Aroclor-1016 [2C]	0.22	0.11	mg/Kg dry	0.225	ND	99.9	40-140			
Aroclor-1260	0.46	0.11	mg/Kg dry	0.225	0.22	106	40-140			
Aroclor-1260 [2C]	0.45	0.11	mg/Kg dry	0.225	0.22	100	40-140			
Surrogate: Decachlorobiphenyl	0.200		mg/Kg dry	0.225		89.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.196		mg/Kg dry	0.225		87.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.211		mg/Kg dry	0.225		93.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.220		mg/Kg dry	0.225		97.8	30-150			

Matrix Spike Dup (B090214-MSD1)
Source: 14B0247-03

Prepared: 02/11/14 Analyzed: 02/12/14

Aroclor-1016	0.21	0.11	mg/Kg dry	0.225	ND	92.4	40-140	3.64	30	
Aroclor-1016 [2C]	0.22	0.11	mg/Kg dry	0.225	ND	98.6	40-140	1.35	30	
Aroclor-1260	0.64	0.11	mg/Kg dry	0.225	0.22	186	* 40-140	32.8	* 30	MS-23
Aroclor-1260 [2C]	0.63	0.11	mg/Kg dry	0.225	0.22	183	* 40-140	34.4	* 30	MS-23
Surrogate: Decachlorobiphenyl	0.190		mg/Kg dry	0.225		84.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.188		mg/Kg dry	0.225		83.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.199		mg/Kg dry	0.225		88.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.212		mg/Kg dry	0.225		94.3	30-150			

QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090176 - % Solids
Duplicate (B090176-DUP1)
Source: 14B0247-01

Prepared & Analyzed: 02/11/14

% Solids	88.2		% Wt		89.5			1.46	20	

Batch B090186 - SW-846 9045C
LCS (B090186-BS1)

Prepared & Analyzed: 02/11/14

pH	6.05		pH Units	6.00		101	99-102			

QUALITY CONTROL
TCLP - Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B090315 - SW-846 5035										
Blank (B090315-BLK1)				Prepared: 02/12/14 Analyzed: 02/13/14						
Benzene	ND	0.010	mg/L							
2-Butanone (MEK)	ND	0.20	mg/L							
Carbon Tetrachloride	ND	0.050	mg/L							
Chlorobenzene	ND	0.010	mg/L							
Chloroform	ND	0.020	mg/L							
1,4-Dichlorobenzene	ND	0.010	mg/L							
1,2-Dichloroethane	ND	0.010	mg/L							V-05
1,1-Dichloroethylene	ND	0.010	mg/L							
Tetrachloroethylene	ND	0.010	mg/L							
Trichloroethylene	ND	0.010	mg/L							
Vinyl Chloride	ND	0.020	mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0212		mg/L	0.0250		85.0	70-130			
Surrogate: Toluene-d8	0.0252		mg/L	0.0250		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0246		mg/L	0.0250		98.2	70-130			
LCS (B090315-BS1)				Prepared: 02/12/14 Analyzed: 02/13/14						
Benzene	0.0103	0.0010	mg/L	0.0100		103	70-130			
2-Butanone (MEK)	0.109	0.020	mg/L	0.100		109	40-160			V-20 †
Carbon Tetrachloride	0.0112	0.0050	mg/L	0.0100		112	70-130			
Chlorobenzene	0.0108	0.0010	mg/L	0.0100		108	70-130			
Chloroform	0.0108	0.0020	mg/L	0.0100		108	70-130			
1,4-Dichlorobenzene	0.0108	0.0010	mg/L	0.0100		108	70-130			
1,2-Dichloroethane	0.00803	0.0010	mg/L	0.0100		80.3	70-130			V-05
1,1-Dichloroethylene	0.0109	0.0010	mg/L	0.0100		109	70-130			
Tetrachloroethylene	0.0113	0.0010	mg/L	0.0100		113	70-130			
Trichloroethylene	0.0107	0.0010	mg/L	0.0100		107	70-130			
Vinyl Chloride	0.00860	0.0020	mg/L	0.0100		86.0	40-160			†
Surrogate: 1,2-Dichloroethane-d4	0.0229		mg/L	0.0250		91.5	70-130			
Surrogate: Toluene-d8	0.0255		mg/L	0.0250		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0247		mg/L	0.0250		98.9	70-130			
LCS Dup (B090315-BSD1)				Prepared: 02/12/14 Analyzed: 02/13/14						
Benzene	0.00968	0.0010	mg/L	0.0100		96.8	70-130	5.82	25	
2-Butanone (MEK)	0.0970	0.020	mg/L	0.100		97.0	40-160	11.3	25	V-20 †
Carbon Tetrachloride	0.0108	0.0050	mg/L	0.0100		108	70-130	4.46	25	
Chlorobenzene	0.0103	0.0010	mg/L	0.0100		103	70-130	4.63	25	
Chloroform	0.0102	0.0020	mg/L	0.0100		102	70-130	5.71	25	
1,4-Dichlorobenzene	0.0103	0.0010	mg/L	0.0100		103	70-130	4.55	25	
1,2-Dichloroethane	0.00754	0.0010	mg/L	0.0100		75.4	70-130	6.29	25	V-05
1,1-Dichloroethylene	0.0105	0.0010	mg/L	0.0100		105	70-130	3.27	25	
Tetrachloroethylene	0.0109	0.0010	mg/L	0.0100		109	70-130	4.05	25	
Trichloroethylene	0.0107	0.0010	mg/L	0.0100		107	70-130	0.187	25	
Vinyl Chloride	0.00824	0.0020	mg/L	0.0100		82.4	40-160	4.28	25	†
Surrogate: 1,2-Dichloroethane-d4	0.0226		mg/L	0.0250		90.4	70-130			
Surrogate: Toluene-d8	0.0247		mg/L	0.0250		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0247		mg/L	0.0250		98.8	70-130			

QUALITY CONTROL

TCLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B090244 - SW-846 3510C										
Blank (B090244-BLK1)				Prepared & Analyzed: 02/12/14						
2,4-Dinitrotoluene	ND	0.010	mg/L							
Hexachlorobenzene	ND	0.010	mg/L							
Hexachlorobutadiene	ND	0.010	mg/L							
Hexachloroethane	ND	0.010	mg/L							
2-Methylphenol	ND	0.010	mg/L							
3/4-Methylphenol	ND	0.010	mg/L							
Nitrobenzene	ND	0.010	mg/L							
Pentachlorophenol	ND	0.010	mg/L							
Pyridine	ND	0.0050	mg/L							
2,4,5-Trichlorophenol	ND	0.010	mg/L							
2,4,6-Trichlorophenol	ND	0.010	mg/L							
Surrogate: 2-Fluorophenol	0.127		mg/L	0.200		63.4	15-110			
Surrogate: Phenol-d6	0.133		mg/L	0.200		66.7	15-110			
Surrogate: Nitrobenzene-d5	0.0729		mg/L	0.100		72.9	30-130			
Surrogate: 2-Fluorobiphenyl	0.0660		mg/L	0.100		66.0	30-130			
Surrogate: 2,4,6-Tribromophenol	0.226		mg/L	0.200		113	* 15-110			S-07
Surrogate: p-Terphenyl-d14	0.102		mg/L	0.100		102	30-130			
LCS (B090244-BS1)				Prepared & Analyzed: 02/12/14						
2,4-Dinitrotoluene	0.0337	0.010	mg/L	0.0500		67.4	40-140			
Hexachlorobenzene	0.0496	0.010	mg/L	0.0500		99.3	40-140			
Hexachlorobutadiene	0.0414	0.010	mg/L	0.0500		82.9	40-140			
Hexachloroethane	0.0386	0.010	mg/L	0.0500		77.2	40-140			
2-Methylphenol	0.0496	0.010	mg/L	0.0500		99.1	30-130			
3/4-Methylphenol	0.0438	0.010	mg/L	0.0500		87.7	30-130			
Nitrobenzene	0.0399	0.010	mg/L	0.0500		79.7	40-140			
Pentachlorophenol	0.0438	0.010	mg/L	0.0500		87.6	30-130			
Pyridine	0.0160	0.0050	mg/L	0.0500		32.1	10-140			†
2,4,5-Trichlorophenol	0.0441	0.010	mg/L	0.0500		88.2	30-130			
2,4,6-Trichlorophenol	0.0467	0.010	mg/L	0.0500		93.4	30-130			
Surrogate: 2-Fluorophenol	0.142		mg/L	0.200		71.2	15-110			
Surrogate: Phenol-d6	0.153		mg/L	0.200		76.7	15-110			
Surrogate: Nitrobenzene-d5	0.0821		mg/L	0.100		82.1	30-130			
Surrogate: 2-Fluorobiphenyl	0.0912		mg/L	0.100		91.2	30-130			
Surrogate: 2,4,6-Tribromophenol	0.153		mg/L	0.200		76.5	15-110			
Surrogate: p-Terphenyl-d14	0.0663		mg/L	0.100		66.3	30-130			

QUALITY CONTROL
TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090239 - SW-846 3010A
Blank (B090239-BLK1)

Prepared & Analyzed: 02/12/14

Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Cadmium	ND	0.0040	mg/L							
Chromium	ND	0.010	mg/L							
Lead	ND	0.010	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.0050	mg/L							

LCS (B090239-BS1)

Prepared & Analyzed: 02/12/14

Arsenic	0.535	0.010	mg/L	0.500		107	80-120			
Barium	0.471	0.050	mg/L	0.500		94.2	80-120			
Cadmium	0.485	0.0040	mg/L	0.500		97.0	80-120			
Chromium	0.472	0.010	mg/L	0.500		94.5	80-120			
Lead	0.451	0.010	mg/L	0.500		90.2	80-120			
Selenium	0.558	0.050	mg/L	0.500		112	80-120			
Silver	0.449	0.0050	mg/L	0.500		89.9	80-120			

LCS Dup (B090239-BSD1)

Prepared & Analyzed: 02/12/14

Arsenic	0.549	0.010	mg/L	0.500		110	80-120	2.53	20	
Barium	0.472	0.050	mg/L	0.500		94.4	80-120	0.193	20	
Cadmium	0.487	0.0040	mg/L	0.500		97.4	80-120	0.390	20	
Chromium	0.476	0.010	mg/L	0.500		95.1	80-120	0.676	20	
Lead	0.461	0.010	mg/L	0.500		92.2	80-120	2.14	20	
Selenium	0.569	0.050	mg/L	0.500		114	80-120	2.00	20	
Silver	0.450	0.0050	mg/L	0.500		90.0	80-120	0.115	20	

Matrix Spike (B090239-MS1)
Source: 14B0247-01

Prepared & Analyzed: 02/12/14

Arsenic	0.584	0.010	mg/L	0.500	0.0325	110	75-125			
Barium	0.828	0.050	mg/L	0.500	0.329	99.7	75-125			
Cadmium	0.526	0.0040	mg/L	0.500	ND	105	75-125			
Chromium	0.503	0.010	mg/L	0.500	ND	101	75-125			
Lead	0.537	0.010	mg/L	0.500	0.00880	106	75-125			
Selenium	0.494	0.050	mg/L	0.500	ND	98.9	75-125			
Silver	0.494	0.0050	mg/L	0.500	ND	98.9	75-125			

Batch B090251 - SW-846 7470A Prep
Blank (B090251-BLK1)

Prepared & Analyzed: 02/12/14

Mercury	ND	0.00010	mg/L							

LCS (B090251-BS1)

Prepared & Analyzed: 02/12/14

Mercury	0.00182	0.00010	mg/L	0.00200		90.9	80-120			

QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090251 - SW-846 7470A Prep

LCS Dup (B090251-BSD1)

Prepared & Analyzed: 02/12/14

Mercury	0.00184	0.00010	mg/L	0.00200		92.2	80-120	1.41	20	

Matrix Spike (B090251-MS1)

Source: 14B0247-01

Prepared & Analyzed: 02/12/14

Mercury	0.00185	0.00010	mg/L	0.00200	ND	92.5	75-125			

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-23	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 1030 in Soil</i>	
Ignitability	NY,NH,CT,NC,ME,VA,NJ
<i>SW-846 6010C in Water</i>	
Arsenic	NY,CT,NC,ME,NH,VA,NJ
Barium	NY,CT,ME,NC,NH,VA,NJ
Cadmium	NY,CT,ME,NC,NH,VA,NJ
Chromium	NY,CT,ME,NC,NH,VA,NJ
Lead	NY,CT,ME,NC,NH,VA,NJ
Selenium	CT,ME,NC,NH,NY,VA,NJ
Silver	CT,ME,NC,NH,NY,VA,NJ
<i>SW-846 7470A in Water</i>	
Mercury	CT,ME,NC,NH,NY,VA,NJ
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
<i>SW-846 8260C in Soil</i>	
Benzene	ME,NY,CT,NC,VA,NJ
2-Butanone (MEK)	ME,NY,CT,NC,VA,NJ
Carbon Tetrachloride	ME,NY,CT,NC,VA,NJ
Chlorobenzene	ME,NY,CT,NC,VA,NJ
Chloroform	ME,NY,CT,NC,VA,NJ
1,4-Dichlorobenzene	ME,NY,CT,NC,VA,NJ
1,2-Dichloroethane	ME,NY,CT,NC,VA,NJ
1,1-Dichloroethylene	ME,NY,CT,NC,VA,NJ
Hexachlorobutadiene	ME,NY,VA,NJ
Tetrachloroethylene	ME,NY,CT,NC,VA,NJ
Trichloroethylene	ME,NY,CT,NC,VA,NJ
Vinyl Chloride	ME,NY,CT,NC,VA,NJ
<i>SW-846 8270D in Water</i>	
1,4-Dichlorobenzene	ME,NC,NH,NY,VA,NJ

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
2,4-Dinitrotoluene	ME,NC,NH,CT,NY,VA,NJ
Hexachlorobenzene	ME,NC,NH,CT,NY,VA,NJ
Hexachlorobutadiene	ME,NC,NH,CT,NY,VA,NJ
Hexachloroethane	ME,NC,NH,CT,NY,VA,NJ
2-Methylphenol	ME,NC,NH,CT
3/4-Methylphenol	ME,NC,NH,CT
Nitrobenzene	ME,NC,NH,CT,NY,VA,NJ
Pentachlorophenol	ME,NC,NH,CT,NY,VA,NJ
Pyridine	ME,NC,NH,CT,NY,VA,NJ
2,4,5-Trichlorophenol	ME,NC,NH,CT,NY,VA,NJ
2,4,6-Trichlorophenol	ME,NC,NH,CT,NY,VA,NJ
2-Fluorophenol	NC

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

1450247

Page 7 of 7

Page 35 of 53

IMPORTANT!

Severe winter weather is causing delays and disruptions in the Pacific Northwest. Learn More



872925196752

Ship (E.U.) date

Mon 2/10/2014 8:48 pm

CAZENOVIA, NY US



Delivered

CAZENOVIA, NY US

Actual delivery

Tues 2/11/2014 9:57 am

WA US

Travel History

Date/Time	Activity	Location
2/11/2014 - Tuesday		
9:57 am	Delivered	WA
8:19 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:32 am	At local FedEx facility	WINDSOR LOCKS, CT
4:15 am	Departed FedEx location	NEWARK, NJ
2/10/2014 - Monday		
11:19 pm	Arrived at FedEx location	NEWARK, NJ
6:57 pm	Left FedEx origin facility	ORISKANY, NY
6:48 pm	Picked up	ORISKANY, NY

Local Scan Time

Shipment Facts

Tracking number	872925196752	Service	FedEx Priority Overnight
Weight	25 lbs	Dimensions	24x13x14 in
Delivered to	Shipper's/Receiving	Total pieces	1
Total shipment weight	25 lbs / 11.3 kgs	Shipper reference	5140 SITE
Packaging	Your Packaging	Special handling section	Deliver Weekday

39 Spruce St.
East Longmeadow, MA, 01028
P: 413-525-2032
F: 413-525-6405
www.contestlabs.com



Page 1 of 2

Sample Receipt Checklist



CLIENT NAME: WSP RECEIVED BY: CEC DATE: 2/11/14

- 1) Was the chain(s) of custody relinquished and signed? ☒ Yes ☐ No No CoC Included
- 2) Does the chain agree with the samples? ☒ Yes ☐ No
If not, explain:
- 3) Are all the samples in good condition? ☒ Yes ☐ No
If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? ☒ Yes ☐ No N/A

Temperature °C by Temp blank 8.2°C Temperature °C by Temp gun _____

- 5) Are there Dissolved samples for the lab to filter? Yes ☐ No ☒

Who was notified _____ Date _____ Time _____

- 6) Are there any RUSH or SHORT HOLDING TIME samples? Yes ☒ No ☐

Who was notified Bill L. Date 2/11/14 Time 0957

- 7) Location where samples are stored: 19

Permission to subcontract samples? Yes ☐ No ☒
(Walk-in clients only) if not already approved
Client Signature: _____

- 8) Do all samples have the proper Acid pH: Yes ☐ No ☒ N/A

- 9) Do all samples have the proper Base pH: Yes ☐ No ☒ N/A

- 10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes ☐ No ☒ N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz <u>amber</u> clear jar	<u>9</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz <u>amber</u> clear jar	<u>6</u>
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen: _____

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False)		Comment
	T/F/NA		
1) The cooler's custody seal, if present, is intact.	T		
2) The cooler or samples do not appear to have been compromised or tampered with.	T		
3) Samples were received on ice.	T		
4) Cooler Temperature is acceptable.	T		
5) Cooler Temperature is recorded.	T		
6) COC is filled out in ink and legible.	T		
7) COC is filled out with all pertinent information.	T		
8) Field Sampler's name present on COC	T		
9) There are no discrepancies between the sample IDs on the container and the COC.	T		
10) Samples are received within Holding Time.	T		
11) Sample containers have legible labels.	T		
12) Containers are not broken or leaking.	T		
13) Air Cassettes are not broken/open.	NA		
14) Sample collection date/times are provided.	T		
15) Appropriate sample containers are used	T		
16) Proper collection media used.	NA		
17) No headspace sample bottles are completely filled.	NA		
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T		
19) Trip blanks provided if applicable	NA		
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA		
21) Samples do not require splitting or compositing.	T		

Who notified of False statements?

Date/Time:

Doc #277 Rev. 4 August 2013

Log-In Technician Initials:

Date/Time:

CE ✓

2/11/14

Pace Analytical e-Report

Report prepared for:

CON-TEST ANALYTICAL LABORATORY
39 SPRUCE STREET
EAST LONGMEADOW, MA 01028
CONTACT: AARON BENOIT

Project ID: 14B0247

Sampling Date(s): February 10, 2014

Lab Report ID: 14020196

Client Service Contact: Chelsea Farmer (518) 346-4592 ext. 3843

Analysis Included:

Ignitability

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Dan Pflzer
Laboratory Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337),
Massachusetts (M-NY906), Virginia (1884)

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Table of Contents

Section 1: CASE NARRATIVE	4
Section 2: QUALIFIERS	6
Section 3: SAMPLE CHAIN OF CUSTODY	8
Section 4: SAMPLE RECEIPT	10
Section 5: Wet Chemistry - Flashpoint	12

1

2

3

4

5

CASE NARRATIVE

February 13, 2014

CASE NARRATIVE

This data package (SDG ID: 14020196) consists of 3 soil samples received on 02/12/2014. The samples are from Project Name: 14B0247.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	<u>Client ID</u>	<u>Collection Date</u>
AR03154	14B0247-01	02/10/2014 14:44
AR03155	14B0247-02	02/10/2014 15:00
AR03156	14B0247-03	02/10/2014 15:40

Sample Delivery and Receipt Conditions

- (1.) All samples were delivered to the laboratory via FEDEX delivery service on 02/12/2014.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

Ignitability Analysis

Analysis for ignitability was performed by method SW-846 1030. The following technical and administrative items were noted for the analysis:

- (1.) All quality assurance parameters were met for the analysis.

Respectfully submitted,



Chelsea L. Farmer
Project Manager

QUALIFIERS

Qualifier Definitions

Organic Laboratory Qualifiers

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate recovery not evaluated against control limits due to sample dilution.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

* - Value not within control limits.

Inorganic Laboratory Qualifiers

B - Denotes analyte observed in associated method blank or digestion blank. Analyte concentration should be considered as estimated.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

* - Value not within control limits.

SAMPLE CHAIN OF CUSTODY

SUBCONTRACT ORDER
Con-Test Analytical Laboratory
14B0247

<14020196P1>



SENDING LABORATORY:

Con-Test Analytical Laboratory
39 Spruce Street
East Longmeadow, MA 01028
Phone: 413.525.2332
Fax: 413.525.6405
Project Manager: Aaron L. Benoit

RECEIVING LABORATORY:

Pace Analytical Services - NY
2190 Technology Drive
Schenectady, NY 12308
Phone: (518) 429-5058
Fax: (518) 381-6055

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 14B0247-01	Soil	Sampled:02/10/14 14:44	ARO3154	
Ignitability by SW846 1030	02/13/14 16:00	03/10/14 14:44		
Containers Supplied:				
2 oz clear glass (E)				
Sample ID: 14B0247-02	Soil	Sampled:02/10/14 15:00	ARO3155	
Ignitability by SW846 1030	02/13/14 16:00	03/10/14 15:00		
Containers Supplied:				
2 oz clear glass (E)				
Sample ID: 14B0247-03	Soil	Sampled:02/10/14 15:40	ARO3156	
Ignitability by SW846 1030	02/13/14 16:00	03/10/14 15:40		
Containers Supplied:				
2 oz clear glass (E)				

Temp: 0.4°C (IR)

Released By		Date	2/11/14 1700	Received By	Fedex	Date	
Released By	Fedex	Date	2/12/14 10:26	Received By	Ch. R. Pace	Date	2/12/14 10:26

SAMPLE RECEIPT



SAMPLE RECEIPT REPORT

14020196

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

CLIENT: CON-TEST ANALYTICAL LABORATORY
PROJECT: 14B0247
LRF: 14020196
REPORT: ANALYTICAL REPORT
EDD: YES
LRF TAT: *1 DAY*

RECEIVED DATE: 02/12/2014 10:26
SHIPPED VIA: FEDEX
SHIPPING ID: 797887071454
NUMBER OF COOLERS: 1
CUSTODY SEAL INTACT: NA
COOLER STATUS: CHILLED
TEMPERATURE(S): 5.4 (IR) °C
SAMPLE SEALS INTACT: NA
SAMPLES PRESERVED PER METHOD GUIDANCE: YES
SAMPLES REC'D IN HOLDTIME: YES
DISPOSAL: BY LAB (45 DAYS)
COC DISCREPANCY: NO

COMMENTS:

CLIENT ID (LAB ID)	TAT-DUE Date ⁴	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
14B0247-01 (AR03154)	*1 DAY* 02-13-14	02/10/2014 14:44	Soil	SW-846 1030	Ignitability	
14B0247-02 (AR03155)	*1 DAY* 02-13-14	02/10/2014 15:00	Soil	SW-846 1030	Ignitability	
14B0247-03 (AR03156)	*1 DAY* 02-13-14	02/10/2014 15:40	Soil	SW-846 1030	Ignitability	

¹The pH preservation check of Oil and Grease (Method 1664) is performed as soon as possible after sample receipt and may not be included in this report.

²The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.

³Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.

⁴Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.

⁵All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

Reporting Parameters and Lists

SW-846 1030 - Ignitability - (mm/sec)

Burning Rate
Ignitability

Wet Chemistry - Flashpoint



Analytical Sample Results

Job Number: 14020196

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: CON-TEST ANALYTICAL LABORATORY

Project: 14B0247

Client Sample ID: 14B0247-01

Lab Sample ID: 14020196-01 (AR03154)

Collection Date: 02/10/2014 14:44

Sample Matrix: SOIL

Received Date: 02/12/2014 10:26

Percent Solid: 90.8 - Results are based on dry weight unless otherwise noted.

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	Ignitability by EPA SW-846 1030	02/12/2014 15:10	ACB	NA	NA	NA

Analyte	CAS No.	Result	Dilution Factor	Flags	File ID
Ignitability	NA	Non-Flammable	0.00		

Results are not adjusted for dry weight.

5



Analytical Sample Results

Job Number: 14020196

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: CON-TEST ANALYTICAL LABORATORY

Project: 14B0247

Client Sample ID: 14B0247-02

Lab Sample ID: 14020196-02 (AR03155)

Collection Date: 02/10/2014 15:00

Sample Matrix: SOIL

Received Date: 02/12/2014 10:26

Percent Solid: 93.3 - Results are based on dry weight unless otherwise noted.

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	Ignitability by EPA SW-846 1030	02/12/2014 15:15	ACB	NA	NA	NA

Analyte	CAS No.	Result	Dilution Factor	Flags	File ID
Ignitability	NA	Non-Flammable	0.00		

Results are not adjusted for dry weight.

5



Analytical Sample Results

Job Number: 14020196

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: CON-TEST ANALYTICAL LABORATORY

Project: 14B0247

Client Sample ID: 14B0247-03

Lab Sample ID: 14020196-03 (AR03156)

Collection Date: 02/10/2014 15:40

Sample Matrix: SOIL

Received Date: 02/12/2014 10:26

Percent Solid: 87.9 - Results are based on dry weight unless otherwise noted.

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	Ignitability by EPA SW-846 1030	02/12/2014 15:25	ACB	NA	NA	NA

Analyte	CAS No.	Result	Dilution Factor	Flags	File ID
Ignitability	NA	Non-Flammable	0.00		

Results are not adjusted for dry weight.

5

February 14, 2014

Dave Bouchard
WSP
5 Sullivan Street
Cazenovia, NY 13035

Project Location: Yorkville, NY
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 14B0291

Enclosed are results of analyses for samples received by the laboratory on February 12, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a long horizontal line extending to the right.

Aaron L. Benoit
Project Manager



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

WSP
5 Sullivan Street
Cazenovia, NY 13035
ATTN: Dave Bouchard

REPORT DATE: 2/14/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14B0291

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

PROJECT LOCATION: Yorkville, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WC-S prox	14B0291-01	Soil		SM 2540G	
				SW-846 1030	
				SW-846 1311	
				SW-846 6010C	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9045C	
WC-S dist	14B0291-02	Soil		SM 2540G	
				SW-846 1030	
				SW-846 1311	
				SW-846 6010C	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9045C	
WC- drums	14B0291-03	Soil		SM 2540G	
				SW-846 1030	
				SW-846 1311	
				SW-846 6010C	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9045C	
WC- drums	14B0291-04	Water		SM18-20 4500 H B	
				SW-846 1010	
				SW-846 1311	
				SW-846 6010C	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	



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WSP
5 Sullivan Street
Cazenovia, NY 13035
ATTN: Dave Bouchard

REPORT DATE: 2/14/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14B0291

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

PROJECT LOCATION: Yorkville, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WC-Concrete	14B0291-05	Concrete		SW-846 1030	
				SW-846 1311	
				SW-846 6010C	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9045C	

CASE NARRATIVE SUMMARY

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

SM18-20 4500 H B**Qualifications:**

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

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

14B0291-04[WC- drums]

SW-846 6010C**Qualifications:**

Elevated reporting limit due to high concentration of an interfering analyte(s).

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

14B0291-05[WC-Concrete]

SW-846 8082A**Qualifications:**

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:**Aroclor-1260**

B090295-MS1, B090295-MSD1

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

Analyte & Samples(s) Qualified:**Aroclor-1016, Aroclor-1016 [2C]**

B090295-MS1, B090295-MSD1

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:**Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]**

14B0291-01[WC-S prox]

SW-846 8260C**Qualifications:**

Elevated reporting limits for all volatile compounds due to foaming sample matrix.

Analyte & Samples(s) Qualified:

14B0291-04[WC- drums]

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

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,4-Dioxane, Hexachlorobutadiene, Naphthalene**

B090346-BS1

pH of sample (pH 7) is outside of method specified preservation criteria.

Analyte & Samples(s) Qualified:

14B0291-04[WC- drums]

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**tert-Butyl Alcohol (TBA)**

14B0291-04[WC- drums], B090346-BLK1, B090346-BS1, B090346-BSD1

Sample container does not satisfy method specifications.

Analyte & Samples(s) Qualified:

14B0291-04[WC- drums]

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

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

14B0291-04[WC- drums], B090346-BLK1, B090346-BS1, B090346-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

14B0291-04[WC- drums], B090346-BLK1, B090346-BS1, B090346-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,4-Dioxane, 2-Butanone (MEK), 2-Hexanone (MBK), Bromomethane, Naphthalene**

B090346-BS1, B090346-BSD1, B090317-BS1, B090317-BSD1

SW-846 8270D

Qualifications:

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

Analyte & Samples(s) Qualified:**N-Nitrosodimethylamine**

14B0291-04[WC- drums], B090297-BLK1, B090297-BS1, B090297-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

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

B090297-BSD1

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**2,4-Dinitrotoluene, 2-Methylphenol, 3/4-Methylphenol, 4-Nitroaniline, Benzidine, Fluoranthene, N-Nitrosodi-n-propylamine, Phenol**

14B0291-04[WC- drums], B090297-BLK1, B090297-BS1, B090297-BSD1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, Benzoic Acid, Di-n-octylphthalate**

14B0291-04[WC- drums], B090297-BLK1, B090297-BS1, B090297-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

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

14B0291-04[WC- drums], B090297-BLK1, B090297-BS1, B090297-BSD1

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

14B0291-04[WC- drums], B090297-BLK1, B090297-BS1, B090297-BSD1

SW-846 9045C**Qualifications:**

Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.

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

14B0291-01[WC-S prox], 14B0291-02[WC-S dist], 14B0291-03[WC- drums], 14B0291-05[WC-Concrete]

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

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



Michael A. Erickson
Laboratory Director



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Field Sample #: WC-S prox

Sampled: 2/11/2014 10:00

Sample ID: 14B0291-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/12/14	2/14/14 11:56	MJC
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/12/14	2/14/14 11:56	MJC
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/12/14	2/14/14 11:56	MJC
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/12/14	2/14/14 11:56	MJC
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/12/14	2/14/14 11:56	MJC
Aroclor-1254 [2]	1.4	1.1	mg/Kg dry	50		SW-846 8082A	2/12/14	2/14/14 11:56	MJC
Aroclor-1260 [1]	5.5	1.1	mg/Kg dry	50		SW-846 8082A	2/12/14	2/14/14 11:56	MJC
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/12/14	2/14/14 11:56	MJC
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/12/14	2/14/14 11:56	MJC
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			2/14/14 11:56	
Decachlorobiphenyl [2]	*	30-150			S-01			2/14/14 11:56	
Tetrachloro-m-xylene [1]	*	30-150			S-01			2/14/14 11:56	
Tetrachloro-m-xylene [2]	*	30-150			S-01			2/14/14 11:56	



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Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Field Sample #: WC-S prox

Sampled: 2/11/2014 10:00

Sample ID: 14B0291-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @20.9°C	8.2		pH Units	1	H-01	SW-846 9045C	2/12/14	2/12/14 14:10	LL
% Solids	89.1		% Wt	1		SM 2540G	2/12/14	2/12/14 15:09	MLA



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Sampled: 2/11/2014 10:00

Field Sample #: WC-S prox

Sample ID: 14B0291-01

Sample Matrix: Soil

TCLP - Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 8:07	EEH
2-Butanone (MEK)	ND	0.20	mg/L	1		SW-846 8260C	2/13/14	2/13/14 8:07	EEH
Carbon Tetrachloride	ND	0.050	mg/L	1		SW-846 8260C	2/13/14	2/13/14 8:07	EEH
Chlorobenzene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 8:07	EEH
Chloroform	ND	0.020	mg/L	1		SW-846 8260C	2/13/14	2/13/14 8:07	EEH
1,4-Dichlorobenzene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 8:07	EEH
1,2-Dichloroethane	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 8:07	EEH
1,1-Dichloroethylene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 8:07	EEH
Tetrachloroethylene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 8:07	EEH
Trichloroethylene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 8:07	EEH
Vinyl Chloride	ND	0.020	mg/L	1		SW-846 8260C	2/13/14	2/13/14 8:07	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4	87.3		70-130				2/13/14 8:07		
Toluene-d8	104		70-130				2/13/14 8:07		
4-Bromofluorobenzene	97.2		70-130				2/13/14 8:07		



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Field Sample #: WC-S prox

Sampled: 2/11/2014 10:00

Sample ID: 14B0291-01

Sample Matrix: Soil

TCLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-Dinitrotoluene	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 11:44	CMR
Hexachlorobenzene	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 11:44	CMR
Hexachlorobutadiene	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 11:44	CMR
Hexachloroethane	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 11:44	CMR
2-Methylphenol	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 11:44	CMR
3/4-Methylphenol	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 11:44	CMR
Nitrobenzene	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 11:44	CMR
Pentachlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 11:44	CMR
Pyridine	ND	0.025	mg/L	1		SW-846 8270D	2/13/14	2/14/14 11:44	CMR
2,4,5-Trichlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 11:44	CMR
2,4,6-Trichlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 11:44	CMR
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorophenol	85.4		15-110				2/14/14 11:44		
Phenol-d6	87.1		15-110				2/14/14 11:44		
Nitrobenzene-d5	100		30-130				2/14/14 11:44		
2-Fluorobiphenyl	89.4		30-130				2/14/14 11:44		
2,4,6-Tribromophenol	107		15-110				2/14/14 11:44		
p-Terphenyl-d14	105		30-130				2/14/14 11:44		



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Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Sampled: 2/11/2014 10:00

Field Sample #: WC-S prox

Sample ID: 14B0291-01

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.010	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:01	OP
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	2/13/14	2/14/14 11:58	SAJ
Barium	0.40	0.050	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:01	OP
Cadmium	ND	0.0040	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:01	OP
Chromium	ND	0.010	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:01	OP
Lead	0.065	0.010	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:01	OP
Selenium	ND	0.050	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:01	OP
Silver	ND	0.0050	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:01	OP



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Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Field Sample #: WC-S prox

Sampled: 2/11/2014 10:00

Sample ID: 14B0291-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Attached		present/absent	1		SW-846 1030		2/13/14 0:00	PAL

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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Field Sample #: WC-S dist

Sampled: 2/11/2014 11:20

Sample ID: 14B0291-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/12/14	2/14/14 12:09	MJC
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/12/14	2/14/14 12:09	MJC
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/12/14	2/14/14 12:09	MJC
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/12/14	2/14/14 12:09	MJC
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/12/14	2/14/14 12:09	MJC
Aroclor-1254 [2]	1.4	1.1	mg/Kg dry	50		SW-846 8082A	2/12/14	2/14/14 12:09	MJC
Aroclor-1260 [1]	3.9	1.1	mg/Kg dry	50		SW-846 8082A	2/12/14	2/14/14 12:09	MJC
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/12/14	2/14/14 12:09	MJC
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/12/14	2/14/14 12:09	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.8	30-150							
Decachlorobiphenyl [2]	97.2	30-150							
Tetrachloro-m-xylene [1]	86.7	30-150							
Tetrachloro-m-xylene [2]	87.9	30-150							



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Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Sampled: 2/11/2014 11:20

Field Sample #: WC-S dist

Sample ID: 14B0291-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @21.6°C	8.2		pH Units	1	H-01	SW-846 9045C	2/12/14	2/12/14 14:10	LL
% Solids	89.9		% Wt	1		SM 2540G	2/12/14	2/12/14 15:09	MLA



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Sampled: 2/11/2014 11:20

Field Sample #: WC-S dist

Sample ID: 14B0291-02

Sample Matrix: Soil

TCLP - Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 8:33	EEH
2-Butanone (MEK)	ND	0.20	mg/L	1		SW-846 8260C	2/13/14	2/13/14 8:33	EEH
Carbon Tetrachloride	ND	0.050	mg/L	1		SW-846 8260C	2/13/14	2/13/14 8:33	EEH
Chlorobenzene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 8:33	EEH
Chloroform	ND	0.020	mg/L	1		SW-846 8260C	2/13/14	2/13/14 8:33	EEH
1,4-Dichlorobenzene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 8:33	EEH
1,2-Dichloroethane	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 8:33	EEH
1,1-Dichloroethylene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 8:33	EEH
Tetrachloroethylene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 8:33	EEH
Trichloroethylene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 8:33	EEH
Vinyl Chloride	ND	0.020	mg/L	1		SW-846 8260C	2/13/14	2/13/14 8:33	EEH
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	89.4	70-130						2/13/14 8:33	
Toluene-d8	102	70-130						2/13/14 8:33	
4-Bromofluorobenzene	98.6	70-130						2/13/14 8:33	



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Sampled: 2/11/2014 11:20

Field Sample #: WC-S dist

Sample ID: 14B0291-02

Sample Matrix: Soil

TCLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-Dinitrotoluene	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 12:19	CMR
Hexachlorobenzene	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 12:19	CMR
Hexachlorobutadiene	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 12:19	CMR
Hexachloroethane	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 12:19	CMR
2-Methylphenol	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 12:19	CMR
3/4-Methylphenol	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 12:19	CMR
Nitrobenzene	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 12:19	CMR
Pentachlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 12:19	CMR
Pyridine	ND	0.025	mg/L	1		SW-846 8270D	2/13/14	2/14/14 12:19	CMR
2,4,5-Trichlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 12:19	CMR
2,4,6-Trichlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 12:19	CMR
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorophenol	77.4		15-110				2/14/14 12:19		
Phenol-d6	77.8		15-110				2/14/14 12:19		
Nitrobenzene-d5	92.8		30-130				2/14/14 12:19		
2-Fluorobiphenyl	84.4		30-130				2/14/14 12:19		
2,4,6-Tribromophenol	101		15-110				2/14/14 12:19		
p-Terphenyl-d14	99.4		30-130				2/14/14 12:19		



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Sampled: 2/11/2014 11:20

Field Sample #: WC-S dist

Sample ID: 14B0291-02

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.010	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:07	OP
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	2/13/14	2/14/14 12:00	SAJ
Barium	0.35	0.050	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:07	OP
Cadmium	ND	0.0040	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:07	OP
Chromium	ND	0.010	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:07	OP
Lead	0.066	0.010	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:07	OP
Selenium	ND	0.050	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:07	OP
Silver	ND	0.0050	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:07	OP



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Field Sample #: WC-S dist

Sampled: 2/11/2014 11:20

Sample ID: 14B0291-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Attached		present/absent	1		SW-846 1030		2/13/14 0:00	PAL

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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Field Sample #: WC- drums

Sampled: 2/11/2014 12:30

Sample ID: 14B0291-03

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/12/14	2/14/14 11:44	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/12/14	2/14/14 11:44	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/12/14	2/14/14 11:44	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/12/14	2/14/14 11:44	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/12/14	2/14/14 11:44	MJC
Aroclor-1254 [2]	0.21	0.12	mg/Kg dry	5		SW-846 8082A	2/12/14	2/14/14 11:44	MJC
Aroclor-1260 [2]	0.65	0.12	mg/Kg dry	5		SW-846 8082A	2/12/14	2/14/14 11:44	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/12/14	2/14/14 11:44	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/12/14	2/14/14 11:44	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	89.0	30-150							
Decachlorobiphenyl [2]	88.7	30-150							
Tetrachloro-m-xylene [1]	92.2	30-150							
Tetrachloro-m-xylene [2]	90.6	30-150							



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Field Sample #: WC- drums

Sampled: 2/11/2014 12:30

Sample ID: 14B0291-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @20.9°C	8.0		pH Units	1	H-01	SW-846 9045C	2/12/14	2/12/14 14:10	LL
% Solids	86.0		% Wt	1		SM 2540G	2/12/14	2/12/14 15:09	MLA



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Field Sample #: WC- drums

Sampled: 2/11/2014 12:30

Sample ID: 14B0291-03

Sample Matrix: Soil

TCLP - Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 9:00	EEH
2-Butanone (MEK)	ND	0.20	mg/L	1		SW-846 8260C	2/13/14	2/13/14 9:00	EEH
Carbon Tetrachloride	ND	0.050	mg/L	1		SW-846 8260C	2/13/14	2/13/14 9:00	EEH
Chlorobenzene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 9:00	EEH
Chloroform	ND	0.020	mg/L	1		SW-846 8260C	2/13/14	2/13/14 9:00	EEH
1,4-Dichlorobenzene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 9:00	EEH
1,2-Dichloroethane	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 9:00	EEH
1,1-Dichloroethylene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 9:00	EEH
Tetrachloroethylene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 9:00	EEH
Trichloroethylene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 9:00	EEH
Vinyl Chloride	ND	0.020	mg/L	1		SW-846 8260C	2/13/14	2/13/14 9:00	EEH
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	86.8	70-130						2/13/14 9:00	
Toluene-d8	104	70-130						2/13/14 9:00	
4-Bromofluorobenzene	99.8	70-130						2/13/14 9:00	



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Field Sample #: WC- drums

Sampled: 2/11/2014 12:30

Sample ID: 14B0291-03

Sample Matrix: Soil

TCLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-Dinitrotoluene	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 12:53	CMR
Hexachlorobenzene	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 12:53	CMR
Hexachlorobutadiene	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 12:53	CMR
Hexachloroethane	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 12:53	CMR
2-Methylphenol	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 12:53	CMR
3/4-Methylphenol	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 12:53	CMR
Nitrobenzene	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 12:53	CMR
Pentachlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 12:53	CMR
Pyridine	ND	0.025	mg/L	1		SW-846 8270D	2/13/14	2/14/14 12:53	CMR
2,4,5-Trichlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 12:53	CMR
2,4,6-Trichlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 12:53	CMR
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorophenol	86.7		15-110				2/14/14 12:53		
Phenol-d6	85.5		15-110				2/14/14 12:53		
Nitrobenzene-d5	97.8		30-130				2/14/14 12:53		
2-Fluorobiphenyl	92.4		30-130				2/14/14 12:53		
2,4,6-Tribromophenol	105		15-110				2/14/14 12:53		
p-Terphenyl-d14	91.6		30-130				2/14/14 12:53		



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Sampled: 2/11/2014 12:30

Field Sample #: WC- drums

Sample ID: 14B0291-03

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.010	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:13	OP
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	2/13/14	2/14/14 12:02	SAJ
Barium	0.40	0.050	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:13	OP
Cadmium	ND	0.0040	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:13	OP
Chromium	ND	0.010	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:13	OP
Lead	0.070	0.010	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:13	OP
Selenium	ND	0.050	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:13	OP
Silver	ND	0.0050	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:13	OP



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Field Sample #: WC- drums

Sampled: 2/11/2014 12:30

Sample ID: 14B0291-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Attached		present/absent	1		SW-846 1030		2/13/14 0:00	PAL

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Field Sample #: WC- drums

Sampled: 2/11/2014 12:30

Sample ID: 14B0291-04

Sample Matrix: Water

Sample Flags: DL-01, PR-10, SM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	500	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Acrylonitrile	ND	50	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
tert-Amyl Methyl Ether (TAME)	ND	5.0	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Benzene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Bromobenzene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Bromochloromethane	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Bromodichloromethane	ND	5.0	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Bromoform	ND	10	µg/L	10	V-05	SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Bromomethane	ND	20	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
2-Butanone (MEK)	ND	200	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
tert-Butyl Alcohol (TBA)	ND	200	µg/L	10	R-05	SW-846 8260C	2/14/14	2/14/14 9:58	MFF
n-Butylbenzene	ND	20	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
sec-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
tert-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Carbon Disulfide	ND	40	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Carbon Tetrachloride	ND	50	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Chlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Chlorodibromomethane	ND	5.0	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Chloroethane	ND	20	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Chloroform	ND	20	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Chloromethane	ND	20	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
2-Chlorotoluene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
4-Chlorotoluene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
1,2-Dibromoethane (EDB)	ND	5.0	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Dibromomethane	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
1,2-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
1,3-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
1,4-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
trans-1,4-Dichloro-2-butene	ND	20	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Dichlorodifluoromethane (Freon 12)	ND	20	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
1,1-Dichloroethane	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
1,2-Dichloroethane	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
1,1-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
cis-1,2-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
trans-1,2-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
1,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
1,3-Dichloropropane	ND	5.0	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
2,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
1,1-Dichloropropene	ND	20	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
cis-1,3-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
trans-1,3-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Diethyl Ether	ND	20	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Field Sample #: WC- drums

Sampled: 2/11/2014 12:30

Sample ID: 14B0291-04

Sample Matrix: Water

Sample Flags: DL-01, PR-10, SM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	5.0	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
1,4-Dioxane	ND	500	µg/L	10	V-16	SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Ethylbenzene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Hexachlorobutadiene	ND	5.0	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
2-Hexanone (MBK)	ND	100	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Isopropylbenzene (Cumene)	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
p-Isopropyltoluene (p-Cymene)	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Methyl tert-Butyl Ether (MTBE)	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Methylene Chloride	ND	50	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
4-Methyl-2-pentanone (MIBK)	ND	100	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Naphthalene	ND	20	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
n-Propylbenzene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Styrene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
1,1,1,2-Tetrachloroethane	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Tetrachloroethylene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Tetrahydrofuran	ND	100	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Toluene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
1,2,3-Trichlorobenzene	ND	50	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
1,2,4-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
1,3,5-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
1,1,1-Trichloroethane	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
1,1,2-Trichloroethane	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Trichloroethylene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Trichlorofluoromethane (Freon 11)	ND	20	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
1,2,3-Trichloropropane	ND	20	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
1,2,4-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
1,3,5-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
Vinyl Chloride	ND	20	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
m+p Xylene	ND	20	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF
o-Xylene	ND	10	µg/L	10		SW-846 8260C	2/14/14	2/14/14 9:58	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	92.8	70-130	2/14/14 9:58
Toluene-d8	104	70-130	2/14/14 9:58
4-Bromofluorobenzene	99.6	70-130	2/14/14 9:58

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Field Sample #: WC- drums

Sampled: 2/11/2014 12:30

Sample ID: 14B0291-04

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Acetophenone	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Aniline	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Anthracene	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Benzidine	ND	20	µg/L	1	R-05	SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Benzoic Acid	ND	10	µg/L	1	V-05	SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Bis(2-Ethylhexyl)phthalate	25	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Carbazole	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
4-Chloroaniline	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Chrysene	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
1,2-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
1,3-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
1,4-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
3,3-Dichlorobenzidine	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1	V-05	SW-846 8270D	2/12/14	2/14/14 12:06	CMR
2,4-Dinitrophenol	ND	10	µg/L	1	V-05, V-19	SW-846 8270D	2/12/14	2/14/14 12:06	CMR
2,4-Dinitrotoluene	ND	10	µg/L	1	R-05	SW-846 8270D	2/12/14	2/14/14 12:06	CMR
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Di-n-octylphthalate	ND	10	µg/L	1	V-05	SW-846 8270D	2/12/14	2/14/14 12:06	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Fluoranthene	ND	5.0	µg/L	1	R-05	SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Fluorene	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Field Sample #: WC- drums

Sampled: 2/11/2014 12:30

Sample ID: 14B0291-04

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Isophorone	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
1-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
2-Methylphenol	ND	10	µg/L	1	R-05	SW-846 8270D	2/12/14	2/14/14 12:06	CMR
3/4-Methylphenol	ND	10	µg/L	1	R-05	SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Naphthalene	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
4-Nitroaniline	ND	10	µg/L	1	R-05	SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
2-Nitrophenol	ND	10	µg/L	1	V-05	SW-846 8270D	2/12/14	2/14/14 12:06	CMR
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
N-Nitrosodimethylamine	ND	10	µg/L	1	L-04	SW-846 8270D	2/12/14	2/14/14 12:06	CMR
N-Nitrosodiphenylamine	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
N-Nitrosodi-n-propylamine	ND	10	µg/L	1	R-05	SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Pentachlorophenol	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Phenol	ND	10	µg/L	1	R-05	SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Pyrene	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Pyridine	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	2/12/14	2/14/14 12:06	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		39.2	15-110					2/14/14 12:06	
Phenol-d6		32.1	15-110					2/14/14 12:06	
Nitrobenzene-d5		50.2	30-130					2/14/14 12:06	
2-Fluorobiphenyl		50.7	30-130					2/14/14 12:06	
2,4,6-Tribromophenol		83.7	15-110					2/14/14 12:06	
p-Terphenyl-d14		89.8	30-130					2/14/14 12:06	

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Field Sample #: WC- drums

Sampled: 2/11/2014 12:30

Sample ID: 14B0291-04

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/12/14	2/12/14 22:26	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/12/14	2/12/14 22:26	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/12/14	2/12/14 22:26	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/12/14	2/12/14 22:26	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/12/14	2/12/14 22:26	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/12/14	2/12/14 22:26	JMB
Aroclor-1260 [1]	0.74	0.20	µg/L	1		SW-846 8082A	2/12/14	2/12/14 22:26	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/12/14	2/12/14 22:26	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/12/14	2/12/14 22:26	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.6	30-150							
Decachlorobiphenyl [2]	87.7	30-150							
Tetrachloro-m-xylene [1]	104	30-150							
Tetrachloro-m-xylene [2]	107	30-150							

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Sampled: 2/11/2014 12:30

Field Sample #: WC- drums

Sample ID: 14B0291-04

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	0.050	0.010	mg/L	1		SW-846 6010C	2/13/14	2/14/14 13:00	OP
Barium	0.97	0.050	mg/L	1		SW-846 6010C	2/13/14	2/14/14 13:00	OP
Cadmium	0.0043	0.0040	mg/L	1		SW-846 6010C	2/13/14	2/14/14 13:00	OP
Chromium	0.18	0.010	mg/L	1		SW-846 6010C	2/13/14	2/14/14 13:00	OP
Lead	0.12	0.010	mg/L	1		SW-846 6010C	2/13/14	2/14/14 13:00	OP
Mercury	0.00054	0.00010	mg/L	1		SW-846 7470A	2/13/14	2/14/14 12:19	SAJ
Selenium	ND	0.050	mg/L	1		SW-846 6010C	2/13/14	2/14/14 13:00	OP
Silver	ND	0.0050	mg/L	1		SW-846 6010C	2/13/14	2/14/14 13:00	OP



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Field Sample #: WC- drums

Sampled: 2/11/2014 12:30

Sample ID: 14B0291-04

Sample Matrix: Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @18.1°C	8.2		pH Units	1	H-05	SM18-20 4500 H B	2/12/14	2/12/14 14:10	LL



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Field Sample #: WC- drums

Sampled: 2/11/2014 12:30

Sample ID: 14B0291-04

Sample Matrix: Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Flashpoint	Attached		°F	1		SW-846 1010		2/13/14 0:00	PAL

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Field Sample #: WC-Concrete

Sampled: 2/11/2014 12:40

Sample ID: 14B0291-05

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	2/12/14	2/14/14 9:51	MJC
Aroclor-1221 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	2/12/14	2/14/14 9:51	MJC
Aroclor-1232 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	2/12/14	2/14/14 9:51	MJC
Aroclor-1242 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	2/12/14	2/14/14 9:51	MJC
Aroclor-1248 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	2/12/14	2/14/14 9:51	MJC
Aroclor-1254 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	2/12/14	2/14/14 9:51	MJC
Aroclor-1260 [2]	11	1.7	mg/Kg	20		SW-846 8082A	2/12/14	2/14/14 9:51	MJC
Aroclor-1262 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	2/12/14	2/14/14 9:51	MJC
Aroclor-1268 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	2/12/14	2/14/14 9:51	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	105	30-150							
Decachlorobiphenyl [2]	101	30-150							
Tetrachloro-m-xylene [1]	99.2	30-150							
Tetrachloro-m-xylene [2]	97.8	30-150							



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Field Sample #: WC-Concrete

Sampled: 2/11/2014 12:40

Sample ID: 14B0291-05

Sample Matrix: Concrete

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @21.4°C	12		pH Units	1	H-01	SW-846 9045C	2/12/14	2/12/14 14:10	LL



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Field Sample #: WC-Concrete

Sampled: 2/11/2014 12:40

Sample ID: 14B0291-05

Sample Matrix: Concrete

TCLP - Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 9:27	EEH
2-Butanone (MEK)	ND	0.20	mg/L	1		SW-846 8260C	2/13/14	2/13/14 9:27	EEH
Carbon Tetrachloride	ND	0.050	mg/L	1		SW-846 8260C	2/13/14	2/13/14 9:27	EEH
Chlorobenzene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 9:27	EEH
Chloroform	ND	0.020	mg/L	1		SW-846 8260C	2/13/14	2/13/14 9:27	EEH
1,4-Dichlorobenzene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 9:27	EEH
1,2-Dichloroethane	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 9:27	EEH
1,1-Dichloroethylene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 9:27	EEH
Tetrachloroethylene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 9:27	EEH
Trichloroethylene	ND	0.010	mg/L	1		SW-846 8260C	2/13/14	2/13/14 9:27	EEH
Vinyl Chloride	ND	0.020	mg/L	1		SW-846 8260C	2/13/14	2/13/14 9:27	EEH
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	89.4	70-130						2/13/14 9:27	
Toluene-d8	104	70-130						2/13/14 9:27	
4-Bromofluorobenzene	100	70-130						2/13/14 9:27	



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Field Sample #: WC-Concrete

Sampled: 2/11/2014 12:40

Sample ID: 14B0291-05

Sample Matrix: Concrete

TCLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-Dinitrotoluene	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 13:30	CMR
Hexachlorobenzene	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 13:30	CMR
Hexachlorobutadiene	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 13:30	CMR
Hexachloroethane	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 13:30	CMR
2-Methylphenol	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 13:30	CMR
3/4-Methylphenol	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 13:30	CMR
Nitrobenzene	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 13:30	CMR
Pentachlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 13:30	CMR
Pyridine	ND	0.025	mg/L	1		SW-846 8270D	2/13/14	2/14/14 13:30	CMR
2,4,5-Trichlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 13:30	CMR
2,4,6-Trichlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/13/14	2/14/14 13:30	CMR
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorophenol	76.6		15-110				2/14/14 13:30		
Phenol-d6	74.1		15-110				2/14/14 13:30		
Nitrobenzene-d5	86.8		30-130				2/14/14 13:30		
2-Fluorobiphenyl	82.0		30-130				2/14/14 13:30		
2,4,6-Tribromophenol	94.2		15-110				2/14/14 13:30		
p-Terphenyl-d14	81.9		30-130				2/14/14 13:30		



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Sampled: 2/11/2014 12:40

Field Sample #: WC-Concrete

Sample ID: 14B0291-05

Sample Matrix: Concrete

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.020	mg/L	2	DL-04	SW-846 6010C	2/13/14	2/14/14 14:02	OP
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	2/13/14	2/14/14 12:05	SAJ
Barium	0.88	0.050	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:17	OP
Cadmium	ND	0.0040	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:17	OP
Chromium	ND	0.010	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:17	OP
Lead	0.16	0.010	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:17	OP
Selenium	ND	0.050	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:17	OP
Silver	ND	0.0050	mg/L	1		SW-846 6010C	2/13/14	2/14/14 12:17	OP



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

Project Location: Yorkville, NY

Sample Description:

Work Order: 14B0291

Date Received: 2/12/2014

Field Sample #: WC-Concrete

Sampled: 2/11/2014 12:40

Sample ID: 14B0291-05

Sample Matrix: Concrete

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Attached		present/absent	1		SW-846 1030		2/13/14 0:00	PAL

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
14B0291-01 [WC-S prox]	B090269	02/12/14
14B0291-02 [WC-S dist]	B090269	02/12/14
14B0291-03 [WC- drums]	B090269	02/12/14

SM18-20 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Date
14B0291-04 [WC- drums]	B090284	50.0	02/12/14

Prep Method: SW-846 3010A-SW-846 6010C

Leachates were extracted on 2/12/2014 per SW-846 1311 in Batch B090266

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14B0291-01 [WC-S prox]	B090321	50.0	50.0	02/13/14
14B0291-02 [WC-S dist]	B090321	50.0	50.0	02/13/14
14B0291-03 [WC- drums]	B090321	50.0	50.0	02/13/14
14B0291-05 [WC-Concrete]	B090321	50.0	50.0	02/13/14

Prep Method: SW-846 3005A-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14B0291-04 [WC- drums]	B090329	50.0	50.0	02/13/14

Prep Method: SW-846 7470A Prep-SW-846 7470A

Leachates were extracted on 2/12/2014 per SW-846 1311 in Batch B090266

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14B0291-01 [WC-S prox]	B090318	6.00	6.00	02/13/14
14B0291-02 [WC-S dist]	B090318	6.00	6.00	02/13/14
14B0291-03 [WC- drums]	B090318	6.00	6.00	02/13/14
14B0291-05 [WC-Concrete]	B090318	6.00	6.00	02/13/14

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14B0291-04 [WC- drums]	B090319	6.00	6.00	02/13/14

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14B0291-05 [WC-Concrete]	B090243	2.40	10.0	02/12/14

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14B0291-01 [WC-S prox]	B090295	10.3	10.0	02/12/14
14B0291-02 [WC-S dist]	B090295	10.0	10.0	02/12/14
14B0291-03 [WC- drums]	B090295	10.1	10.0	02/12/14



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

Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14B0291-04 [WC- drums]	B090291	1000	10.0	02/12/14

Prep Method: SW-846 5035-SW-846 8260C

Leachates were extracted on 2/12/2014 per SW-846 1311 in Batch B090268

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14B0291-01 [WC-S prox]	B090317	5.00	5.00	02/13/14
14B0291-02 [WC-S dist]	B090317	5.00	5.00	02/13/14
14B0291-03 [WC- drums]	B090317	5.00	5.00	02/13/14
14B0291-05 [WC-Concrete]	B090317	5.00	5.00	02/13/14

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14B0291-04 [WC- drums]	B090346	0.5	5.00	02/14/14

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14B0291-04 [WC- drums]	B090297	1000	1.00	02/12/14

Prep Method: SW-846 3510C-SW-846 8270D

Leachates were extracted on 2/12/2014 per SW-846 1311 in Batch B090266

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14B0291-01 [WC-S prox]	B090322	200	1.00	02/13/14
14B0291-02 [WC-S dist]	B090322	200	1.00	02/13/14
14B0291-03 [WC- drums]	B090322	200	1.00	02/13/14
14B0291-05 [WC-Concrete]	B090322	200	1.00	02/13/14

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
14B0291-05 [WC-Concrete]	B090283	20.0	02/12/14

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
14B0291-01 [WC-S prox]	B090282	20.0	02/12/14
14B0291-02 [WC-S dist]	B090282	20.0	02/12/14
14B0291-03 [WC- drums]	B090282	20.0	02/12/14



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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B090346 - SW-846 5035										
Blank (B090346-BLK1)				Prepared & Analyzed: 02/14/14						
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							V-05
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							R-05
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090346 - SW-846 5035
Blank (B090346-BLK1)

Prepared & Analyzed: 02/14/14

Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	23.3		µg/L	25.0		93.1	70-130			
Surrogate: Toluene-d8	26.0		µg/L	25.0		104	70-130			
Surrogate: 4-Bromofluorobenzene	25.1		µg/L	25.0		100	70-130			

LCS (B090346-BS1)

Prepared & Analyzed: 02/14/14

Acetone	95.8	50	µg/L	100		95.8	70-160			†
Acrylonitrile	11.1	5.0	µg/L	10.0		111	70-130			
tert-Amyl Methyl Ether (TAME)	9.91	0.50	µg/L	10.0		99.1	70-130			
Benzene	12.5	1.0	µg/L	10.0		125	70-130			
Bromobenzene	11.2	1.0	µg/L	10.0		112	70-130			
Bromochloromethane	12.5	1.0	µg/L	10.0		125	70-130			
Bromodichloromethane	9.55	0.50	µg/L	10.0		95.5	70-130			
Bromoform	7.94	1.0	µg/L	10.0		79.4	70-130		V-05	
Bromomethane	7.98	2.0	µg/L	10.0		79.8	40-160		V-20	†
2-Butanone (MEK)	112	20	µg/L	100		112	40-160		V-20	†
tert-Butyl Alcohol (TBA)	94.9	20	µg/L	100		94.9	40-160		R-05	†
n-Butylbenzene	12.0	1.0	µg/L	10.0		120	70-130			
sec-Butylbenzene	12.2	1.0	µg/L	10.0		122	70-130			
tert-Butylbenzene	11.2	1.0	µg/L	10.0		112	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.7	0.50	µg/L	10.0		107	70-130			
Carbon Disulfide	8.35	4.0	µg/L	10.0		83.5	70-130			
Carbon Tetrachloride	9.45	5.0	µg/L	10.0		94.5	70-130			
Chlorobenzene	11.7	1.0	µg/L	10.0		117	70-130			
Chlorodibromomethane	8.58	0.50	µg/L	10.0		85.8	70-130			
Chloroethane	9.89	2.0	µg/L	10.0		98.9	70-130			
Chloroform	11.5	2.0	µg/L	10.0		115	70-130			
Chloromethane	7.48	2.0	µg/L	10.0		74.8	40-160			†
2-Chlorotoluene	11.2	1.0	µg/L	10.0		112	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B090346 - SW-846 5035										
LCS (B090346-BS1)				Prepared & Analyzed: 02/14/14						
4-Chlorotoluene	11.6	1.0	µg/L	10.0		116	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.43	5.0	µg/L	10.0		84.3	70-130			
1,2-Dibromoethane (EDB)	12.1	0.50	µg/L	10.0		121	70-130			
Dibromomethane	11.4	1.0	µg/L	10.0		114	70-130			
1,2-Dichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130			
1,3-Dichlorobenzene	11.4	1.0	µg/L	10.0		114	70-130			
1,4-Dichlorobenzene	11.5	1.0	µg/L	10.0		115	70-130			
trans-1,4-Dichloro-2-butene	10.6	2.0	µg/L	10.0		106	70-130			
Dichlorodifluoromethane (Freon 12)	5.83	2.0	µg/L	10.0		58.3	40-160			†
1,1-Dichloroethane	12.0	1.0	µg/L	10.0		120	70-130			
1,2-Dichloroethane	10.4	1.0	µg/L	10.0		104	70-130			
1,1-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130			
cis-1,2-Dichloroethylene	11.4	1.0	µg/L	10.0		114	70-130			
trans-1,2-Dichloroethylene	11.3	1.0	µg/L	10.0		113	70-130			
1,2-Dichloropropane	11.8	1.0	µg/L	10.0		118	70-130			
1,3-Dichloropropane	11.7	0.50	µg/L	10.0		117	70-130			
2,2-Dichloropropane	11.3	1.0	µg/L	10.0		113	40-130			†
1,1-Dichloropropene	11.6	2.0	µg/L	10.0		116	70-130			
cis-1,3-Dichloropropene	9.96	0.50	µg/L	10.0		99.6	70-130			
trans-1,3-Dichloropropene	9.21	0.50	µg/L	10.0		92.1	70-130			
Diethyl Ether	10.4	2.0	µg/L	10.0		104	70-130			
Diisopropyl Ether (DIPE)	11.8	0.50	µg/L	10.0		118	70-130			
1,4-Dioxane	158	50	µg/L	100		158	* 40-130			L-07, V-16, V-20 †
Ethylbenzene	12.4	1.0	µg/L	10.0		124	70-130			
Hexachlorobutadiene	13.4	0.50	µg/L	10.0		134	* 70-130			L-07
2-Hexanone (MBK)	115	10	µg/L	100		115	70-160			V-20 †
Isopropylbenzene (Cumene)	12.3	1.0	µg/L	10.0		123	70-130			
p-Isopropyltoluene (p-Cymene)	12.3	1.0	µg/L	10.0		123	70-130			
Methyl tert-Butyl Ether (MTBE)	10.1	1.0	µg/L	10.0		101	70-130			
Methylene Chloride	8.47	5.0	µg/L	10.0		84.7	70-130			
4-Methyl-2-pentanone (MIBK)	111	10	µg/L	100		111	70-160			†
Naphthalene	14.4	2.0	µg/L	10.0		144	* 40-130			L-07, V-20 †
n-Propylbenzene	12.7	1.0	µg/L	10.0		127	70-130			
Styrene	12.3	1.0	µg/L	10.0		123	70-130			
1,1,1,2-Tetrachloroethane	11.0	1.0	µg/L	10.0		110	70-130			
1,1,2,2-Tetrachloroethane	12.3	0.50	µg/L	10.0		123	70-130			
Tetrachloroethylene	12.8	1.0	µg/L	10.0		128	70-130			
Tetrahydrofuran	12.0	10	µg/L	10.0		120	70-130			
Toluene	12.5	1.0	µg/L	10.0		125	70-130			
1,2,3-Trichlorobenzene	15.7	5.0	µg/L	10.0		157	* 70-130			L-07, V-20
1,2,4-Trichlorobenzene	13.1	1.0	µg/L	10.0		131	* 70-130			V-20, L-07
1,3,5-Trichlorobenzene	11.9	1.0	µg/L	10.0		119	70-130			
1,1,1-Trichloroethane	10.1	1.0	µg/L	10.0		101	70-130			
1,1,2-Trichloroethane	12.2	1.0	µg/L	10.0		122	70-130			
Trichloroethylene	12.6	1.0	µg/L	10.0		126	70-130			
Trichlorofluoromethane (Freon 11)	10.4	2.0	µg/L	10.0		104	70-130			
1,2,3-Trichloropropane	11.6	2.0	µg/L	10.0		116	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8	1.0	µg/L	10.0		108	70-130			
1,2,4-Trimethylbenzene	11.3	1.0	µg/L	10.0		113	70-130			
1,3,5-Trimethylbenzene	12.0	1.0	µg/L	10.0		120	70-130			
Vinyl Chloride	8.59	2.0	µg/L	10.0		85.9	40-160			†

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B090346 - SW-846 5035										
LCS (B090346-BS1)				Prepared & Analyzed: 02/14/14						
m+p Xylene	24.0	2.0	µg/L	20.0		120	70-130			
o-Xylene	11.4	1.0	µg/L	10.0		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	22.3		µg/L	25.0		89.2	70-130			
Surrogate: Toluene-d8	26.4		µg/L	25.0		106	70-130			
Surrogate: 4-Bromofluorobenzene	26.1		µg/L	25.0		104	70-130			
LCS Dup (B090346-BS1)				Prepared & Analyzed: 02/14/14						
Acetone	81.2	50	µg/L	100		81.2	70-160	16.4	25	†
Acrylonitrile	9.90	5.0	µg/L	10.0		99.0	70-130	11.8	25	
tert-Amyl Methyl Ether (TAME)	9.58	0.50	µg/L	10.0		95.8	70-130	3.39	25	
Benzene	12.2	1.0	µg/L	10.0		122	70-130	2.03	25	
Bromobenzene	11.0	1.0	µg/L	10.0		110	70-130	2.16	25	
Bromochloromethane	12.4	1.0	µg/L	10.0		124	70-130	1.05	25	
Bromodichloromethane	9.45	0.50	µg/L	10.0		94.5	70-130	1.05	25	
Bromoform	7.43	1.0	µg/L	10.0		74.3	70-130	6.64	25	V-05
Bromomethane	6.21	2.0	µg/L	10.0		62.1	40-160	24.9	25	V-20 †
2-Butanone (MEK)	97.3	20	µg/L	100		97.3	40-160	13.6	25	V-20 †
tert-Butyl Alcohol (TBA)	72.5	20	µg/L	100		72.5	40-160	26.8 *	25	R-05 †
n-Butylbenzene	11.7	1.0	µg/L	10.0		117	70-130	2.79	25	
sec-Butylbenzene	11.9	1.0	µg/L	10.0		119	70-130	2.90	25	
tert-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130	2.25	25	
tert-Butyl Ethyl Ether (TBEE)	10.5	0.50	µg/L	10.0		105	70-130	2.26	25	
Carbon Disulfide	7.41	4.0	µg/L	10.0		74.1	70-130	11.9	25	
Carbon Tetrachloride	9.22	5.0	µg/L	10.0		92.2	70-130	2.46	25	
Chlorobenzene	11.3	1.0	µg/L	10.0		113	70-130	3.30	25	
Chlorodibromomethane	8.24	0.50	µg/L	10.0		82.4	70-130	4.04	25	
Chloroethane	9.34	2.0	µg/L	10.0		93.4	70-130	5.72	25	
Chloroform	11.1	2.0	µg/L	10.0		111	70-130	3.01	25	
Chloromethane	7.34	2.0	µg/L	10.0		73.4	40-160	1.89	25	†
2-Chlorotoluene	10.9	1.0	µg/L	10.0		109	70-130	2.17	25	
4-Chlorotoluene	11.2	1.0	µg/L	10.0		112	70-130	3.76	25	
1,2-Dibromo-3-chloropropane (DBCP)	7.31	5.0	µg/L	10.0		73.1	70-130	14.2	25	
1,2-Dibromoethane (EDB)	11.3	0.50	µg/L	10.0		113	70-130	6.86	25	
Dibromomethane	11.0	1.0	µg/L	10.0		110	70-130	3.21	25	
1,2-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	2.08	25	
1,3-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	3.22	25	
1,4-Dichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130	3.10	25	
trans-1,4-Dichloro-2-butene	9.36	2.0	µg/L	10.0		93.6	70-130	12.0	25	
Dichlorodifluoromethane (Freon 12)	5.61	2.0	µg/L	10.0		56.1	40-160	3.85	25	†
1,1-Dichloroethane	11.6	1.0	µg/L	10.0		116	70-130	3.47	25	
1,2-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130	2.03	25	
1,1-Dichloroethylene	10.3	1.0	µg/L	10.0		103	70-130	4.76	25	
cis-1,2-Dichloroethylene	11.2	1.0	µg/L	10.0		112	70-130	2.30	25	
trans-1,2-Dichloroethylene	11.1	1.0	µg/L	10.0		111	70-130	1.88	25	
1,2-Dichloropropane	11.3	1.0	µg/L	10.0		113	70-130	4.16	25	
1,3-Dichloropropane	11.2	0.50	µg/L	10.0		112	70-130	4.72	25	
2,2-Dichloropropane	10.8	1.0	µg/L	10.0		108	40-130	4.07	25	†
1,1-Dichloropropene	11.3	2.0	µg/L	10.0		113	70-130	2.27	25	
cis-1,3-Dichloropropene	9.54	0.50	µg/L	10.0		95.4	70-130	4.31	25	
trans-1,3-Dichloropropene	8.75	0.50	µg/L	10.0		87.5	70-130	5.12	25	
Diethyl Ether	9.88	2.0	µg/L	10.0		98.8	70-130	5.03	25	
Diisopropyl Ether (DIPE)	11.7	0.50	µg/L	10.0		117	70-130	1.11	25	

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B090346 - SW-846 5035										
LCS Dup (B090346-BSD1)				Prepared & Analyzed: 02/14/14						
1,4-Dioxane	130	50	µg/L	100		130	40-130	19.4	50	V-16, V-20 † ‡
Ethylbenzene	11.8	1.0	µg/L	10.0		118	70-130	5.28	25	
Hexachlorobutadiene	12.7	0.50	µg/L	10.0		127	70-130	5.07	25	
2-Hexanone (MBK)	96.0	10	µg/L	100		96.0	70-160	17.6	25	V-20 †
Isopropylbenzene (Cumene)	11.8	1.0	µg/L	10.0		118	70-130	3.97	25	
p-Isopropyltoluene (p-Cymene)	11.9	1.0	µg/L	10.0		119	70-130	2.98	25	
Methyl tert-Butyl Ether (MTBE)	9.67	1.0	µg/L	10.0		96.7	70-130	4.05	25	
Methylene Chloride	9.95	5.0	µg/L	10.0		99.5	70-130	16.1	25	
4-Methyl-2-pentanone (MIBK)	97.0	10	µg/L	100		97.0	70-160	13.4	25	†
Naphthalene	11.8	2.0	µg/L	10.0		118	40-130	20.2	25	V-20 †
n-Propylbenzene	12.2	1.0	µg/L	10.0		122	70-130	3.69	25	
Styrene	11.9	1.0	µg/L	10.0		119	70-130	3.15	25	
1,1,1,2-Tetrachloroethane	10.5	1.0	µg/L	10.0		105	70-130	4.47	25	
1,1,2,2-Tetrachloroethane	11.2	0.50	µg/L	10.0		112	70-130	9.61	25	
Tetrachloroethylene	12.3	1.0	µg/L	10.0		123	70-130	3.84	25	
Tetrahydrofuran	10.4	10	µg/L	10.0		104	70-130	14.4	25	
Toluene	12.0	1.0	µg/L	10.0		120	70-130	4.00	25	
1,2,3-Trichlorobenzene	13.0	5.0	µg/L	10.0		130	70-130	19.0	25	V-20
1,2,4-Trichlorobenzene	11.7	1.0	µg/L	10.0		117	70-130	11.5	25	V-20
1,3,5-Trichlorobenzene	11.4	1.0	µg/L	10.0		114	70-130	4.64	25	
1,1,1-Trichloroethane	9.91	1.0	µg/L	10.0		99.1	70-130	1.90	25	
1,1,2-Trichloroethane	11.6	1.0	µg/L	10.0		116	70-130	5.55	25	
Trichloroethylene	12.1	1.0	µg/L	10.0		121	70-130	4.54	25	
Trichlorofluoromethane (Freon 11)	9.99	2.0	µg/L	10.0		99.9	70-130	3.83	25	
1,2,3-Trichloropropane	10.5	2.0	µg/L	10.0		105	70-130	9.59	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2	1.0	µg/L	10.0		102	70-130	5.04	25	
1,2,4-Trimethylbenzene	11.1	1.0	µg/L	10.0		111	70-130	2.41	25	
1,3,5-Trimethylbenzene	11.7	1.0	µg/L	10.0		117	70-130	2.44	25	
Vinyl Chloride	8.20	2.0	µg/L	10.0		82.0	40-160	4.65	25	†
m+p Xylene	23.3	2.0	µg/L	20.0		116	70-130	3.08	25	
o-Xylene	11.0	1.0	µg/L	10.0		110	70-130	3.38	25	
Surrogate: 1,2-Dichloroethane-d4	22.6		µg/L	25.0		90.6	70-130			
Surrogate: Toluene-d8	26.4		µg/L	25.0		105	70-130			
Surrogate: 4-Bromofluorobenzene	26.1		µg/L	25.0		104	70-130			

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B090297 - SW-846 3510C										
Blank (B090297-BLK1)				Prepared: 02/12/14 Analyzed: 02/14/14						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzidine	ND	20	µg/L							R-05
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Benzoic Acid	ND	10	µg/L							V-05
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							V-05
2,4-Dinitrophenol	ND	10	µg/L							V-05, V-19
2,4-Dinitrotoluene	ND	10	µg/L							R-05
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							V-05
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							R-05
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							



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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090297 - SW-846 3510C

Blank (B090297-BLK1)

Prepared: 02/12/14 Analyzed: 02/14/14

2-Methylphenol	ND	10	µg/L							R-05
3/4-Methylphenol	ND	10	µg/L							R-05
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							R-05
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							V-05
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodimethylamine	ND	10	µg/L							L-04
N-Nitrosodiphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							R-05
Pentachloronitrobenzene	ND	10	µg/L							V-16
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							R-05
Pyrene	ND	5.0	µg/L							
Pyridine	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	67.8		µg/L	200		33.9	15-110			
Surrogate: Phenol-d6	47.9		µg/L	200		23.9	15-110			
Surrogate: Nitrobenzene-d5	51.0		µg/L	100		51.0	30-130			
Surrogate: 2-Fluorobiphenyl	54.3		µg/L	100		54.3	30-130			
Surrogate: 2,4,6-Tribromophenol	149		µg/L	200		74.7	15-110			
Surrogate: p-Terphenyl-d14	79.6		µg/L	100		79.6	30-130			

LCS (B090297-BS1)

Prepared: 02/12/14 Analyzed: 02/14/14

Acenaphthene	35.2	5.0	µg/L	50.0		70.5	40-140			
Acenaphthylene	35.6	5.0	µg/L	50.0		71.2	40-140			
Acetophenone	44.2	10	µg/L	50.0		88.4	40-140			
Aniline	28.2	5.0	µg/L	50.0		56.5	40-140			
Anthracene	37.5	5.0	µg/L	50.0		74.9	40-140			
Benzidine	59.1	20	µg/L	50.0		118	40-140			R-05
Benzo(a)anthracene	39.1	5.0	µg/L	50.0		78.3	40-140			
Benzo(a)pyrene	37.8	5.0	µg/L	50.0		75.7	40-140			
Benzo(b)fluoranthene	36.5	5.0	µg/L	50.0		73.0	40-140			
Benzo(g,h,i)perylene	34.3	5.0	µg/L	50.0		68.6	40-140			
Benzo(k)fluoranthene	35.4	5.0	µg/L	50.0		70.9	40-140			
Benzoic Acid	16.0	10	µg/L	50.0		32.1	10-130			V-05 †
Bis(2-chloroethoxy)methane	39.7	10	µg/L	50.0		79.4	40-140			
Bis(2-chloroethyl)ether	36.8	10	µg/L	50.0		73.7	40-140			
Bis(2-chloroisopropyl)ether	28.8	10	µg/L	50.0		57.7	40-140			
Bis(2-Ethylhexyl)phthalate	38.8	10	µg/L	50.0		77.7	40-140			
4-Bromophenylphenylether	45.3	10	µg/L	50.0		90.7	40-140			
Butylbenzylphthalate	37.9	10	µg/L	50.0		75.8	40-140			
Carbazole	36.2	10	µg/L	50.0		72.4	40-140			
4-Chloroaniline	35.2	10	µg/L	50.0		70.4	40-140			
4-Chloro-3-methylphenol	37.4	10	µg/L	50.0		74.7	30-130			
2-Chloronaphthalene	32.7	10	µg/L	50.0		65.4	40-140			

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B090297 - SW-846 3510C										
LCS (B090297-BS1)				Prepared: 02/12/14 Analyzed: 02/14/14						
2-Chlorophenol	32.9	10	µg/L	50.0		65.9	30-130			
4-Chlorophenylphenylether	36.8	10	µg/L	50.0		73.6	40-140			
Chrysene	36.6	5.0	µg/L	50.0		73.2	40-140			
Dibenz(a,h)anthracene	37.6	5.0	µg/L	50.0		75.2	40-140			
Dibenzofuran	35.5	5.0	µg/L	50.0		71.1	40-140			
Di-n-butylphthalate	34.1	10	µg/L	50.0		68.2	40-140			
1,2-Dichlorobenzene	33.2	5.0	µg/L	50.0		66.4	40-140			
1,3-Dichlorobenzene	31.6	5.0	µg/L	50.0		63.1	40-140			
1,4-Dichlorobenzene	31.3	5.0	µg/L	50.0		62.7	40-140			
3,3-Dichlorobenzidine	45.5	10	µg/L	50.0		91.0	40-140			
2,4-Dichlorophenol	37.8	10	µg/L	50.0		75.6	30-130			
Diethylphthalate	32.6	10	µg/L	50.0		65.2	40-140			
2,4-Dimethylphenol	35.1	10	µg/L	50.0		70.2	30-130			
Dimethylphthalate	36.4	10	µg/L	50.0		72.8	40-140			
4,6-Dinitro-2-methylphenol	31.4	10	µg/L	50.0		62.8	30-130			V-05
2,4-Dinitrophenol	27.6	10	µg/L	50.0		55.2	30-130			V-05, V-19
2,4-Dinitrotoluene	27.8	10	µg/L	50.0		55.6	40-140			R-05
2,6-Dinitrotoluene	34.5	10	µg/L	50.0		69.1	40-140			
Di-n-octylphthalate	29.1	10	µg/L	50.0		58.2	40-140			V-05
1,2-Diphenylhydrazine (as Azobenzene)	44.2	10	µg/L	50.0		88.5	40-140			
Fluoranthene	32.6	5.0	µg/L	50.0		65.2	40-140			R-05
Fluorene	32.8	5.0	µg/L	50.0		65.5	40-140			
Hexachlorobenzene	40.6	10	µg/L	50.0		81.2	40-140			
Hexachlorobutadiene	35.1	10	µg/L	50.0		70.2	40-140			
Hexachlorocyclopentadiene	31.9	10	µg/L	50.0		63.8	30-140			†
Hexachloroethane	32.4	10	µg/L	50.0		64.8	40-140			
Indeno(1,2,3-cd)pyrene	38.1	5.0	µg/L	50.0		76.3	40-140			
Isophorone	38.6	10	µg/L	50.0		77.2	40-140			
1-Methylnaphthalene	36.1	5.0	µg/L	50.0		72.2	40-140			
2-Methylnaphthalene	36.4	5.0	µg/L	50.0		72.9	40-140			
2-Methylphenol	33.4	10	µg/L	50.0		66.8	30-130			R-05
3/4-Methylphenol	27.8	10	µg/L	50.0		55.7	30-130			R-05
Naphthalene	33.5	5.0	µg/L	50.0		67.0	40-140			
2-Nitroaniline	42.1	10	µg/L	50.0		84.2	40-140			
3-Nitroaniline	33.1	10	µg/L	50.0		66.2	40-140			
4-Nitroaniline	31.0	10	µg/L	50.0		61.9	40-140			R-05
Nitrobenzene	33.2	10	µg/L	50.0		66.3	40-140			
2-Nitrophenol	32.5	10	µg/L	50.0		65.0	30-130			V-05
4-Nitrophenol	16.5	10	µg/L	50.0		33.0	10-130			†
N-Nitrosodimethylamine	18.8	10	µg/L	50.0		37.7	* 40-140			L-04
N-Nitrosodiphenylamine	51.9	10	µg/L	50.0		104	40-140			
N-Nitrosodi-n-propylamine	34.6	10	µg/L	50.0		69.1	40-140			R-05
Pentachloronitrobenzene	42.1	10	µg/L	50.0		84.1	40-140			V-16
Pentachlorophenol	35.1	10	µg/L	50.0		70.2	30-130			
Phenanthrene	36.4	5.0	µg/L	50.0		72.9	40-140			
Phenol	16.6	10	µg/L	50.0		33.2	20-130			R-05 †
Pyrene	34.0	5.0	µg/L	50.0		67.9	40-140			
Pyridine	13.2	5.0	µg/L	50.0		26.4	10-140			†
1,2,4,5-Tetrachlorobenzene	42.3	10	µg/L	50.0		84.5	40-140			
1,2,4-Trichlorobenzene	34.4	5.0	µg/L	50.0		68.9	40-140			
2,4,5-Trichlorophenol	37.8	10	µg/L	50.0		75.6	30-130			
2,4,6-Trichlorophenol	37.7	10	µg/L	50.0		75.5	30-130			

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090297 - SW-846 3510C
LCS (B090297-BS1)

Prepared: 02/12/14 Analyzed: 02/14/14

Surrogate: 2-Fluorophenol	81.1		µg/L	200		40.6	15-110			
Surrogate: Phenol-d6	62.2		µg/L	200		31.1	15-110			
Surrogate: Nitrobenzene-d5	68.4		µg/L	100		68.4	30-130			
Surrogate: 2-Fluorobiphenyl	71.2		µg/L	100		71.2	30-130			
Surrogate: 2,4,6-Tribromophenol	143		µg/L	200		71.5	15-110			
Surrogate: p-Terphenyl-d14	82.5		µg/L	100		82.5	30-130			

LCS Dup (B090297-BSD1)

Prepared: 02/12/14 Analyzed: 02/14/14

Acenaphthene	39.2	5.0	µg/L	50.0		78.4	40-140	10.7	20	
Acenaphthylene	39.3	5.0	µg/L	50.0		78.6	40-140	9.88	20	
Acetophenone	53.8	10	µg/L	50.0		108	40-140	19.6	20	
Aniline	34.6	5.0	µg/L	50.0		69.1	40-140	20.2	50	‡
Anthracene	42.2	5.0	µg/L	50.0		84.5	40-140	11.9	20	
Benzidine	94.5	20	µg/L	50.0		189 *	40-140	46.1 *	20	L-07A
Benzo(a)anthracene	44.3	5.0	µg/L	50.0		88.6	40-140	12.4	20	
Benzo(a)pyrene	42.7	5.0	µg/L	50.0		85.4	40-140	12.0	20	
Benzo(b)fluoranthene	41.1	5.0	µg/L	50.0		82.2	40-140	11.8	20	
Benzo(g,h,i)perylene	38.4	5.0	µg/L	50.0		76.9	40-140	11.4	20	
Benzo(k)fluoranthene	39.2	5.0	µg/L	50.0		78.5	40-140	10.2	20	
Benzoic Acid	11.4	10	µg/L	50.0		22.8	10-130	34.1	50	V-05 † ‡
Bis(2-chloroethoxy)methane	43.0	10	µg/L	50.0		86.0	40-140	7.91	20	
Bis(2-chloroethyl)ether	41.2	10	µg/L	50.0		82.5	40-140	11.2	20	
Bis(2-chloroisopropyl)ether	34.0	10	µg/L	50.0		67.9	40-140	16.3	20	
Bis(2-Ethylhexyl)phthalate	45.1	10	µg/L	50.0		90.3	40-140	15.0	20	
4-Bromophenylphenylether	47.7	10	µg/L	50.0		95.4	40-140	5.05	20	
Butylbenzylphthalate	42.7	10	µg/L	50.0		85.4	40-140	12.0	20	
Carbazole	43.3	10	µg/L	50.0		86.5	40-140	17.7	20	
4-Chloroaniline	41.0	10	µg/L	50.0		82.0	40-140	15.2	20	
4-Chloro-3-methylphenol	43.8	10	µg/L	50.0		87.6	30-130	15.8	20	
2-Chloronaphthalene	35.2	10	µg/L	50.0		70.3	40-140	7.31	20	
2-Chlorophenol	38.7	10	µg/L	50.0		77.5	30-130	16.2	20	
4-Chlorophenylphenylether	41.4	10	µg/L	50.0		82.9	40-140	11.8	20	
Chrysene	41.4	5.0	µg/L	50.0		82.8	40-140	12.4	20	
Dibenz(a,h)anthracene	42.8	5.0	µg/L	50.0		85.6	40-140	12.9	20	
Dibenzofuran	39.8	5.0	µg/L	50.0		79.6	40-140	11.4	20	
Di-n-butylphthalate	40.5	10	µg/L	50.0		81.0	40-140	17.1	20	
1,2-Dichlorobenzene	36.8	5.0	µg/L	50.0		73.7	40-140	10.4	20	
1,3-Dichlorobenzene	34.4	5.0	µg/L	50.0		68.8	40-140	8.64	20	
1,4-Dichlorobenzene	34.6	5.0	µg/L	50.0		69.2	40-140	9.95	20	
3,3-Dichlorobenzidine	51.5	10	µg/L	50.0		103	40-140	12.4	20	
2,4-Dichlorophenol	43.4	10	µg/L	50.0		86.7	30-130	13.7	20	
Diethylphthalate	37.6	10	µg/L	50.0		75.2	40-140	14.2	20	
2,4-Dimethylphenol	39.8	10	µg/L	50.0		79.6	30-130	12.5	20	
Dimethylphthalate	41.2	10	µg/L	50.0		82.5	40-140	12.4	50	‡
4,6-Dinitro-2-methylphenol	36.7	10	µg/L	50.0		73.4	30-130	15.5	50	V-05 ‡
2,4-Dinitrophenol	33.8	10	µg/L	50.0		67.6	30-130	20.1	50	V-05, V-19 ‡
2,4-Dinitrotoluene	34.5	10	µg/L	50.0		68.9	40-140	21.4 *	20	R-05
2,6-Dinitrotoluene	40.2	10	µg/L	50.0		80.4	40-140	15.2	20	
Di-n-octylphthalate	31.6	10	µg/L	50.0		63.2	40-140	8.17	20	V-05
1,2-Diphenylhydrazine (as Azobenzene)	44.7	10	µg/L	50.0		89.3	40-140	0.945	20	
Fluoranthene	40.5	5.0	µg/L	50.0		81.0	40-140	21.6 *	20	R-05
Fluorene	37.5	5.0	µg/L	50.0		75.0	40-140	13.4	20	

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B090297 - SW-846 3510C										
LCS Dup (B090297-BSD1)					Prepared: 02/12/14 Analyzed: 02/14/14					
Hexachlorobenzene	43.7	10	µg/L	50.0		87.4	40-140	7.43	20	
Hexachlorobutadiene	36.9	10	µg/L	50.0		73.8	40-140	5.06	20	
Hexachlorocyclopentadiene	33.3	10	µg/L	50.0		66.7	30-140	4.35	50	† ‡
Hexachloroethane	35.2	10	µg/L	50.0		70.5	40-140	8.34	50	‡
Indeno(1,2,3-cd)pyrene	43.8	5.0	µg/L	50.0		87.6	40-140	13.9	50	‡
Isophorone	42.2	10	µg/L	50.0		84.3	40-140	8.74	20	
1-Methylnaphthalene	40.5	5.0	µg/L	50.0		81.0	40-140	11.5	20	
2-Methylnaphthalene	41.4	5.0	µg/L	50.0		82.7	40-140	12.6	20	
2-Methylphenol	41.4	10	µg/L	50.0		82.8	30-130	21.4 *	20	R-05
3/4-Methylphenol	38.2	10	µg/L	50.0		76.3	30-130	31.3 *	20	R-05
Naphthalene	37.3	5.0	µg/L	50.0		74.6	40-140	10.8	20	
2-Nitroaniline	47.7	10	µg/L	50.0		95.3	40-140	12.4	20	
3-Nitroaniline	40.4	10	µg/L	50.0		80.9	40-140	20.0	20	
4-Nitroaniline	40.6	10	µg/L	50.0		81.3	40-140	27.0 *	20	R-05
Nitrobenzene	36.2	10	µg/L	50.0		72.5	40-140	8.90	20	
2-Nitrophenol	37.1	10	µg/L	50.0		74.3	30-130	13.3	20	V-05
4-Nitrophenol	21.2	10	µg/L	50.0		42.5	10-130	25.0	50	† ‡
N-Nitrosodimethylamine	18.7	10	µg/L	50.0		37.5 *	40-140	0.532	20	L-04
N-Nitrosodiphenylamine	55.4	10	µg/L	50.0		111	40-140	6.48	20	
N-Nitrosodi-n-propylamine	43.1	10	µg/L	50.0		86.1	40-140	21.9 *	20	R-05
Pentachloronitrobenzene	48.6	10	µg/L	50.0		97.1	40-140	14.3	20	V-16
Pentachlorophenol	41.2	10	µg/L	50.0		82.5	30-130	16.1	50	‡
Phenanthrene	40.8	5.0	µg/L	50.0		81.6	40-140	11.3	20	
Phenol	21.3	10	µg/L	50.0		42.6	20-130	24.9 *	20	R-05 †
Pyrene	31.8	5.0	µg/L	50.0		63.7	40-140	6.50	20	
Pyridine	15.7	5.0	µg/L	50.0		31.4	10-140	17.2	50	† ‡
1,2,4,5-Tetrachlorobenzene	44.7	10	µg/L	50.0		89.5	40-140	5.70	20	
1,2,4-Trichlorobenzene	36.7	5.0	µg/L	50.0		73.4	40-140	6.38	20	
2,4,5-Trichlorophenol	41.3	10	µg/L	50.0		82.5	30-130	8.75	20	
2,4,6-Trichlorophenol	42.2	10	µg/L	50.0		84.5	30-130	11.3	50	‡
Surrogate: 2-Fluorophenol	95.0		µg/L	200		47.5	15-110			
Surrogate: Phenol-d6	78.6		µg/L	200		39.3	15-110			
Surrogate: Nitrobenzene-d5	75.0		µg/L	100		75.0	30-130			
Surrogate: 2-Fluorobiphenyl	77.1		µg/L	100		77.1	30-130			
Surrogate: 2,4,6-Tribromophenol	173		µg/L	200		86.7	15-110			
Surrogate: p-Terphenyl-d14	81.1		µg/L	100		81.1	30-130			

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090243 - SW-846 3546
Blank (B090243-BLK1)

Prepared & Analyzed: 02/12/14

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	0.987		mg/Kg	1.00		98.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.937		mg/Kg	1.00		93.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.988		mg/Kg	1.00		98.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.968		mg/Kg	1.00		96.8	30-150			

LCS (B090243-BS1)

Prepared & Analyzed: 02/12/14

Aroclor-1016	0.25	0.10	mg/Kg	0.250		102	40-140			
Aroclor-1016 [2C]	0.25	0.10	mg/Kg	0.250		98.0	40-140			
Aroclor-1260	0.26	0.10	mg/Kg	0.250		102	40-140			
Aroclor-1260 [2C]	0.25	0.10	mg/Kg	0.250		99.6	40-140			
Surrogate: Decachlorobiphenyl	1.02		mg/Kg	1.00		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.976		mg/Kg	1.00		97.6	30-150			
Surrogate: Tetrachloro-m-xylene	1.01		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.992		mg/Kg	1.00		99.2	30-150			

LCS Dup (B090243-BSD1)

Prepared & Analyzed: 02/12/14

Aroclor-1016	0.29	0.10	mg/Kg	0.250		114	40-140	11.8	30	
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		111	40-140	12.6	30	
Aroclor-1260	0.29	0.10	mg/Kg	0.250		116	40-140	12.6	30	
Aroclor-1260 [2C]	0.29	0.10	mg/Kg	0.250		114	40-140	13.7	30	
Surrogate: Decachlorobiphenyl	1.14		mg/Kg	1.00		114	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.07		mg/Kg	1.00		107	30-150			
Surrogate: Tetrachloro-m-xylene	1.09		mg/Kg	1.00		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.07		mg/Kg	1.00		107	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090291 - SW-846 3510C
Blank (B090291-BLK1)

Prepared & Analyzed: 02/12/14

Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	2.17		µg/L	2.00		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.09		µg/L	2.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	2.04		µg/L	2.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.09		µg/L	2.00		104	30-150			

LCS (B090291-BS1)

Prepared & Analyzed: 02/12/14

Aroclor-1016	0.52	0.20	µg/L	0.500		103	40-140			
Aroclor-1016 [2C]	0.54	0.20	µg/L	0.500		108	40-140			
Aroclor-1260	0.56	0.20	µg/L	0.500		111	40-140			
Aroclor-1260 [2C]	0.55	0.20	µg/L	0.500		109	40-140			
Surrogate: Decachlorobiphenyl	1.99		µg/L	2.00		99.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.87		µg/L	2.00		93.4	30-150			
Surrogate: Tetrachloro-m-xylene	2.04		µg/L	2.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.09		µg/L	2.00		105	30-150			

LCS Dup (B090291-BSD1)

Prepared & Analyzed: 02/12/14

Aroclor-1016	0.49	0.20	µg/L	0.500		97.6	40-140	5.85	20	
Aroclor-1016 [2C]	0.53	0.20	µg/L	0.500		105	40-140	3.09	20	
Aroclor-1260	0.53	0.20	µg/L	0.500		105	40-140	5.58	20	
Aroclor-1260 [2C]	0.52	0.20	µg/L	0.500		104	40-140	5.21	20	
Surrogate: Decachlorobiphenyl	1.52		µg/L	2.00		76.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.43		µg/L	2.00		71.3	30-150			
Surrogate: Tetrachloro-m-xylene	1.93		µg/L	2.00		96.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.00		µg/L	2.00		99.9	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090295 - SW-846 3546
Blank (B090295-BLK1)

Prepared: 02/12/14 Analyzed: 02/14/14

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.236		mg/Kg wet	0.200		118	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.213		mg/Kg wet	0.200		107	30-150			
Surrogate: Tetrachloro-m-xylene	0.206		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.206		mg/Kg wet	0.200		103	30-150			

LCS (B090295-BS1)

Prepared: 02/12/14 Analyzed: 02/14/14

Aroclor-1016	0.22	0.10	mg/Kg wet	0.200		109	40-140			
Aroclor-1016 [2C]	0.21	0.10	mg/Kg wet	0.200		107	40-140			
Aroclor-1260	0.23	0.10	mg/Kg wet	0.200		116	40-140			
Aroclor-1260 [2C]	0.24	0.10	mg/Kg wet	0.200		118	40-140			
Surrogate: Decachlorobiphenyl	0.230		mg/Kg wet	0.200		115	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.209		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene	0.204		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.205		mg/Kg wet	0.200		102	30-150			

LCS Dup (B090295-BSD1)

Prepared: 02/12/14 Analyzed: 02/14/14

Aroclor-1016	0.21	0.10	mg/Kg wet	0.200		105	40-140	2.90	30	
Aroclor-1016 [2C]	0.20	0.10	mg/Kg wet	0.200		98.3	40-140	8.21	30	
Aroclor-1260	0.23	0.10	mg/Kg wet	0.200		117	40-140	0.452	30	
Aroclor-1260 [2C]	0.23	0.10	mg/Kg wet	0.200		117	40-140	0.432	30	
Surrogate: Decachlorobiphenyl	0.232		mg/Kg wet	0.200		116	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.207		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene	0.204		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.204		mg/Kg wet	0.200		102	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090295 - SW-846 3546
Matrix Spike (B090295-MS1)
Source: 14B0291-01

Prepared: 02/12/14 Analyzed: 02/14/14

Aroclor-1016	0.41	0.11	mg/Kg dry	0.216	ND	192	*	40-140		MS-21
Aroclor-1016 [2C]	0.45	0.11	mg/Kg dry	0.216	ND	207	*	40-140		MS-21
Aroclor-1260	5.9	0.11	mg/Kg dry	0.216	5.5	207	*	40-140		MS-19
Aroclor-1260 [2C]	5.6	0.11	mg/Kg dry	0.216	5.4	90.4		40-140		
Surrogate: Decachlorobiphenyl	0.208		mg/Kg dry	0.216		96.3		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.200		mg/Kg dry	0.216		92.4		30-150		
Surrogate: Tetrachloro-m-xylene	0.191		mg/Kg dry	0.216		88.5		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.187		mg/Kg dry	0.216		86.9		30-150		

Matrix Spike Dup (B090295-MSD1)
Source: 14B0291-01

Prepared: 02/12/14 Analyzed: 02/14/14

Aroclor-1016	0.44	0.11	mg/Kg dry	0.216	ND	203	*	40-140	5.83	30	MS-21
Aroclor-1016 [2C]	0.48	0.11	mg/Kg dry	0.216	ND	222	*	40-140	7.09	30	MS-21
Aroclor-1260	5.8	0.11	mg/Kg dry	0.216	5.5	151	*	40-140	2.07	30	MS-19
Aroclor-1260 [2C]	5.5	0.11	mg/Kg dry	0.216	5.4	40.1		40-140	1.97	30	
Surrogate: Decachlorobiphenyl	0.225		mg/Kg dry	0.216		104		30-150			
Surrogate: Decachlorobiphenyl [2C]	0.214		mg/Kg dry	0.216		98.9		30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg dry	0.216		94.1		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.200		mg/Kg dry	0.216		92.7		30-150			



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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B090319 - SW-846 7470A Prep										
Blank (B090319-BLK1)				Prepared: 02/13/14 Analyzed: 02/14/14						
Mercury	ND	0.00010	mg/L							
LCS (B090319-BS1)				Prepared: 02/13/14 Analyzed: 02/14/14						
Mercury	0.00201	0.00010	mg/L	0.00200		101	80-120			
LCS Dup (B090319-BSD1)				Prepared: 02/13/14 Analyzed: 02/14/14						
Mercury	0.00202	0.00010	mg/L	0.00200		101	80-120	0.263	20	
Duplicate (B090319-DUP1)				Source: 14B0291-04			Prepared: 02/13/14 Analyzed: 02/14/14			
Mercury	0.000527	0.00010	mg/L		0.000538			2.13	20	
Matrix Spike (B090319-MS1)				Source: 14B0291-04			Prepared: 02/13/14 Analyzed: 02/14/14			
Mercury	0.00265	0.00010	mg/L	0.00200	0.000538	105	75-125			
Batch B090329 - SW-846 3005A										
Blank (B090329-BLK1)				Prepared: 02/13/14 Analyzed: 02/14/14						
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Cadmium	ND	0.0040	mg/L							
Chromium	ND	0.010	mg/L							
Lead	ND	0.010	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.0050	mg/L							
LCS (B090329-BS1)				Prepared: 02/13/14 Analyzed: 02/14/14						
Arsenic	0.525	0.010	mg/L	0.500		105	80-120			
Barium	0.519	0.050	mg/L	0.500		104	80-120			
Cadmium	0.513	0.0040	mg/L	0.500		103	80-120			
Chromium	0.520	0.010	mg/L	0.500		104	80-120			
Lead	0.506	0.010	mg/L	0.500		101	80-120			
Selenium	0.526	0.050	mg/L	0.500		105	80-120			
Silver	0.461	0.0050	mg/L	0.500		92.2	80-120			
LCS Dup (B090329-BSD1)				Prepared: 02/13/14 Analyzed: 02/14/14						
Arsenic	0.527	0.010	mg/L	0.500		105	80-120	0.414	20	
Barium	0.517	0.050	mg/L	0.500		103	80-120	0.400	20	
Cadmium	0.510	0.0040	mg/L	0.500		102	80-120	0.572	20	
Chromium	0.519	0.010	mg/L	0.500		104	80-120	0.0393	20	
Lead	0.504	0.010	mg/L	0.500		101	80-120	0.387	20	
Selenium	0.528	0.050	mg/L	0.500		106	80-120	0.403	20	
Silver	0.459	0.0050	mg/L	0.500		91.9	80-120	0.388	20	



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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090269 - % Solids

Duplicate (B090269-DUP1)

Source: 14B0291-03

Prepared & Analyzed: 02/12/14

% Solids	88.2		% Wt		86.0			2.53	20	

Batch B090282 - SW-846 9045C

LCS (B090282-BS1)

Prepared & Analyzed: 02/12/14

pH	6.02		pH Units	6.00		100	99-102			

Batch B090283 - SW-846 9045C

LCS (B090283-BS1)

Prepared & Analyzed: 02/12/14

pH	6.02		pH Units	6.00		100	99-102			

Batch B090284 - SM18-20 4500 H B

LCS (B090284-BS1)

Prepared & Analyzed: 02/12/14

pH	6.02		pH Units	6.00		100	99-102			

QUALITY CONTROL
TCLP - Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B090317 - SW-846 5035										
Blank (B090317-BLK1)				Prepared: 02/12/14 Analyzed: 02/13/14						
Benzene	ND	0.010	mg/L							
2-Butanone (MEK)	ND	0.20	mg/L							
Carbon Tetrachloride	ND	0.050	mg/L							
Chlorobenzene	ND	0.010	mg/L							
Chloroform	ND	0.020	mg/L							
1,4-Dichlorobenzene	ND	0.010	mg/L							
1,2-Dichloroethane	ND	0.010	mg/L							
1,1-Dichloroethylene	ND	0.010	mg/L							
Tetrachloroethylene	ND	0.010	mg/L							
Trichloroethylene	ND	0.010	mg/L							
Vinyl Chloride	ND	0.020	mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0212		mg/L	0.0250		85.0	70-130			
Surrogate: Toluene-d8	0.0252		mg/L	0.0250		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0246		mg/L	0.0250		98.2	70-130			
LCS (B090317-BS1)				Prepared: 02/12/14 Analyzed: 02/13/14						
Benzene	0.0102	0.0010	mg/L	0.0100		102	70-130			
2-Butanone (MEK)	0.114	0.020	mg/L	0.100		114	40-160			V-20 †
Carbon Tetrachloride	0.0110	0.0050	mg/L	0.0100		110	70-130			
Chlorobenzene	0.0110	0.0010	mg/L	0.0100		110	70-130			
Chloroform	0.0107	0.0020	mg/L	0.0100		107	70-130			
1,4-Dichlorobenzene	0.0104	0.0010	mg/L	0.0100		104	70-130			
1,2-Dichloroethane	0.00770	0.0010	mg/L	0.0100		77.0	70-130			
1,1-Dichloroethylene	0.0108	0.0010	mg/L	0.0100		108	70-130			
Tetrachloroethylene	0.0114	0.0010	mg/L	0.0100		114	70-130			
Trichloroethylene	0.0110	0.0010	mg/L	0.0100		110	70-130			
Vinyl Chloride	0.00863	0.0020	mg/L	0.0100		86.3	40-160			†
Surrogate: 1,2-Dichloroethane-d4	0.0231		mg/L	0.0250		92.4	70-130			
Surrogate: Toluene-d8	0.0250		mg/L	0.0250		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0251		mg/L	0.0250		100	70-130			
LCS Dup (B090317-BSD1)				Prepared: 02/12/14 Analyzed: 02/13/14						
Benzene	0.0103	0.0010	mg/L	0.0100		103	70-130	0.783	25	
2-Butanone (MEK)	0.109	0.020	mg/L	0.100		109	40-160	5.19	25	V-20 †
Carbon Tetrachloride	0.0112	0.0050	mg/L	0.0100		112	70-130	1.80	25	
Chlorobenzene	0.0108	0.0010	mg/L	0.0100		108	70-130	1.74	25	
Chloroform	0.0108	0.0020	mg/L	0.0100		108	70-130	0.650	25	
1,4-Dichlorobenzene	0.0108	0.0010	mg/L	0.0100		108	70-130	3.39	25	
1,2-Dichloroethane	0.00803	0.0010	mg/L	0.0100		80.3	70-130	4.20	25	
1,1-Dichloroethylene	0.0109	0.0010	mg/L	0.0100		109	70-130	0.831	25	
Tetrachloroethylene	0.0113	0.0010	mg/L	0.0100		113	70-130	0.704	25	
Trichloroethylene	0.0107	0.0010	mg/L	0.0100		107	70-130	2.95	25	
Vinyl Chloride	0.00860	0.0020	mg/L	0.0100		86.0	40-160	0.348	25	†
Surrogate: 1,2-Dichloroethane-d4	0.0229		mg/L	0.0250		91.5	70-130			
Surrogate: Toluene-d8	0.0255		mg/L	0.0250		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0247		mg/L	0.0250		98.9	70-130			

QUALITY CONTROL
TCLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090322 - SW-846 3510C
Blank (B090322-BLK1)

Prepared: 02/13/14 Analyzed: 02/14/14

2,4-Dinitrotoluene	ND	0.050	mg/L							
Hexachlorobenzene	ND	0.050	mg/L							
Hexachlorobutadiene	ND	0.050	mg/L							
Hexachloroethane	ND	0.050	mg/L							
2-Methylphenol	ND	0.050	mg/L							
3/4-Methylphenol	ND	0.050	mg/L							
Nitrobenzene	ND	0.050	mg/L							
Pentachlorophenol	ND	0.050	mg/L							
Pyridine	ND	0.025	mg/L							
2,4,5-Trichlorophenol	ND	0.050	mg/L							
2,4,6-Trichlorophenol	ND	0.050	mg/L							

Surrogate: 2-Fluorophenol	0.751		mg/L	1.00		75.1	15-110			
Surrogate: Phenol-d6	0.743		mg/L	1.00		74.3	15-110			
Surrogate: Nitrobenzene-d5	0.435		mg/L	0.500		87.0	30-130			
Surrogate: 2-Fluorobiphenyl	0.405		mg/L	0.500		81.0	30-130			
Surrogate: 2,4,6-Tribromophenol	0.872		mg/L	1.00		87.2	15-110			
Surrogate: p-Terphenyl-d14	0.406		mg/L	0.500		81.2	30-130			

LCS (B090322-BS1)

Prepared: 02/13/14 Analyzed: 02/14/14

2,4-Dinitrotoluene	0.233	0.050	mg/L	0.250		93.0	40-140			
Hexachlorobenzene	0.228	0.050	mg/L	0.250		91.2	40-140			
Hexachlorobutadiene	0.207	0.050	mg/L	0.250		82.9	40-140			
Hexachloroethane	0.201	0.050	mg/L	0.250		80.3	40-140			
2-Methylphenol	0.220	0.050	mg/L	0.250		87.9	30-130			
3/4-Methylphenol	0.314	0.050	mg/L	0.250		126	30-130			
Nitrobenzene	0.217	0.050	mg/L	0.250		86.9	40-140			
Pentachlorophenol	0.238	0.050	mg/L	0.250		95.3	30-130			
Pyridine	0.153	0.025	mg/L	0.250		61.2	10-140			†
2,4,5-Trichlorophenol	0.251	0.050	mg/L	0.250		100	30-130			
2,4,6-Trichlorophenol	0.231	0.050	mg/L	0.250		92.3	30-130			

Surrogate: 2-Fluorophenol	0.848		mg/L	1.00		84.8	15-110			
Surrogate: Phenol-d6	0.851		mg/L	1.00		85.1	15-110			
Surrogate: Nitrobenzene-d5	0.480		mg/L	0.500		96.0	30-130			
Surrogate: 2-Fluorobiphenyl	0.463		mg/L	0.500		92.6	30-130			
Surrogate: 2,4,6-Tribromophenol	1.04		mg/L	1.00		104	15-110			
Surrogate: p-Terphenyl-d14	0.498		mg/L	0.500		99.5	30-130			

Matrix Spike (B090322-MS1)
Source: 14B0291-01

Prepared: 02/13/14 Analyzed: 02/14/14

2,4-Dinitrotoluene	0.230	0.050	mg/L	0.250	ND	92.1	40-140			
Hexachlorobenzene	0.221	0.050	mg/L	0.250	ND	88.5	40-140			
Hexachlorobutadiene	0.199	0.050	mg/L	0.250	ND	79.6	40-140			
Hexachloroethane	0.192	0.050	mg/L	0.250	ND	76.9	40-140			
2-Methylphenol	0.212	0.050	mg/L	0.250	ND	85.0	40-140			
3/4-Methylphenol	0.244	0.050	mg/L	0.250	ND	97.6	40-140			
Nitrobenzene	0.196	0.050	mg/L	0.250	ND	78.3	40-140			
Pentachlorophenol	0.243	0.050	mg/L	0.250	ND	97.2	40-140			
Pyridine	0.117	0.025	mg/L	0.250	ND	46.6	40-140			
2,4,5-Trichlorophenol	0.257	0.050	mg/L	0.250	ND	103	40-140			
2,4,6-Trichlorophenol	0.209	0.050	mg/L	0.250	ND	83.7	40-140			

Surrogate: 2-Fluorophenol	0.798		mg/L	1.00		79.8	15-110			
Surrogate: Phenol-d6	0.805		mg/L	1.00		80.5	15-110			
Surrogate: Nitrobenzene-d5	0.434		mg/L	0.500		86.7	30-130			

QUALITY CONTROL
TCLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090322 - SW-846 3510C
Matrix Spike (B090322-MS1)
Source: 14B0291-01

Prepared: 02/13/14 Analyzed: 02/14/14

Surrogate: 2-Fluorobiphenyl	0.427		mg/L	0.500		85.4	30-130			
Surrogate: 2,4,6-Tribromophenol	1.03		mg/L	1.00		103	15-110			
Surrogate: p-Terphenyl-d14	0.515		mg/L	0.500		103	30-130			



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

QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B090318 - SW-846 7470A Prep										
Blank (B090318-BLK1)				Prepared: 02/13/14 Analyzed: 02/14/14						
Mercury	ND	0.00010	mg/L							
LCS (B090318-BS1)				Prepared: 02/13/14 Analyzed: 02/14/14						
Mercury	0.00208	0.00010	mg/L	0.00200		104	80-120			
LCS Dup (B090318-BSD1)				Prepared: 02/13/14 Analyzed: 02/14/14						
Mercury	0.00207	0.00010	mg/L	0.00200		104	80-120	0.136	20	
Matrix Spike (B090318-MS1)				Source: 14B0291-01		Prepared: 02/13/14 Analyzed: 02/14/14				
Mercury	0.00206	0.00010	mg/L	0.00200	ND	103	75-125			
Batch B090321 - SW-846 3010A										
Blank (B090321-BLK1)				Prepared: 02/13/14 Analyzed: 02/14/14						
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Cadmium	ND	0.0040	mg/L							
Chromium	ND	0.010	mg/L							
Lead	ND	0.010	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.0050	mg/L							
LCS (B090321-BS1)				Prepared: 02/13/14 Analyzed: 02/14/14						
Arsenic	0.537	0.010	mg/L	0.500		107	80-120			
Barium	0.465	0.050	mg/L	0.500		92.9	80-120			
Cadmium	0.477	0.0040	mg/L	0.500		95.5	80-120			
Chromium	0.478	0.010	mg/L	0.500		95.6	80-120			
Lead	0.449	0.010	mg/L	0.500		89.7	80-120			
Selenium	0.542	0.050	mg/L	0.500		108	80-120			
Silver	0.453	0.0050	mg/L	0.500		90.7	80-120			
LCS Dup (B090321-BSD1)				Prepared: 02/13/14 Analyzed: 02/14/14						
Arsenic	0.508	0.010	mg/L	0.500		102	80-120	5.53	20	
Barium	0.435	0.050	mg/L	0.500		87.1	80-120	6.50	20	
Cadmium	0.449	0.0040	mg/L	0.500		89.8	80-120	6.10	20	
Chromium	0.448	0.010	mg/L	0.500		89.5	80-120	6.51	20	
Lead	0.427	0.010	mg/L	0.500		85.4	80-120	4.92	20	
Selenium	0.511	0.050	mg/L	0.500		102	80-120	5.91	20	
Silver	0.421	0.0050	mg/L	0.500		84.3	80-120	7.35	20	
Matrix Spike (B090321-MS1)				Source: 14B0291-01		Prepared: 02/13/14 Analyzed: 02/14/14				
Arsenic	0.525	0.010	mg/L	0.500	ND	105	75-125			
Barium	0.862	0.050	mg/L	0.500	0.404	91.8	75-125			
Cadmium	0.500	0.0040	mg/L	0.500	ND	100	75-125			
Chromium	0.487	0.010	mg/L	0.500	ND	97.5	75-125			
Lead	0.520	0.010	mg/L	0.500	0.0654	91.0	75-125			
Selenium	0.601	0.25	mg/L	0.500	ND	120	75-125			
Silver	0.455	0.0050	mg/L	0.500	ND	91.0	75-125			

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-01	Elevated reporting limits for all volatile compounds due to foaming sample matrix.
DL-04	Elevated reporting limit due to high concentration of an interfering analyte(s).
H-01	Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-21	Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.
PR-10	pH of sample (pH 7) is outside of method specified preservation criteria.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
SM-01	Sample container does not satisfy method specifications.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM18-20 4500 H B in Water	
pH	CT,MA,RI
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME,VA,NJ
SW-846 6010C in Water	
Arsenic	CT,NH,NY,ME,NC,VA,RI
Arsenic	NY,CT,NC,ME,NH,VA,NJ
Barium	CT,NH,NY,ME,NC,VA,NJ
Cadmium	CT,NH,NY,ME,NC,VA,NJ
Chromium	CT,NH,NY,ME,NC,VA,NJ
Lead	CT,NH,NY,NC,ME,VA,NJ
Selenium	CT,NH,NY,ME,NC,VA,NJ
Silver	CT,NH,NY,ME,NC,VA,NJ
Barium	NY,CT,ME,NC,NH,VA,NJ
Cadmium	NY,CT,ME,NC,NH,VA,NJ
Chromium	NY,CT,ME,NC,NH,VA,NJ
Lead	NY,CT,ME,NC,NH,VA,NJ
Selenium	CT,ME,NC,NH,NY,VA,NJ
Silver	CT,ME,NC,NH,NY,VA,NJ
SW-846 7470A in Water	
Mercury	CT,ME,NC,NH,NY,VA,NJ
Mercury	CT,NH,NY,NC,ME,VA,NJ
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,NJ

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Soil</i>	
Aroclor-1232	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
<i>SW-846 8082A in Water</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
<i>SW-846 8260C in Soil</i>	
Acetone	ME,NY,VA,NJ
Benzene	ME,NY,CT,NC,VA,NJ
Bromobenzene	ME,NY,VA,NJ
Bromochloromethane	ME,NY,VA,NJ
Bromodichloromethane	ME,NY,VA,NJ
Bromoform	ME,NY,VA,NJ
Bromomethane	ME,NY,VA,NJ
2-Butanone (MEK)	ME,NY,CT,NC,VA,NJ
n-Butylbenzene	ME,NY,VA,NJ
sec-Butylbenzene	ME,NY,VA,NJ
tert-Butylbenzene	ME,NY,VA,NJ
Carbon Disulfide	ME,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
Carbon Tetrachloride	ME,NY,CT,NC,VA,NJ
Chlorobenzene	ME,NY,CT,NC,VA,NJ
Chlorodibromomethane	ME,NY,VA,NJ
Chloroethane	ME,NY,VA,NJ
Chloroform	ME,NY,CT,NC,VA,NJ
Chloromethane	ME,NY,VA,NJ
2-Chlorotoluene	ME,NY,VA,NJ
4-Chlorotoluene	ME,NY,VA,NJ
Dibromomethane	ME,NY,VA,NJ
1,2-Dichlorobenzene	ME,NY,VA,NJ
1,3-Dichlorobenzene	ME,NY,VA,NJ
1,4-Dichlorobenzene	ME,NY,CT,NC,VA,NJ
Dichlorodifluoromethane (Freon 12)	ME,NY,VA,NJ
1,1-Dichloroethane	ME,NY,VA,NJ
1,2-Dichloroethane	ME,NY,CT,NC,VA,NJ
1,1-Dichloroethylene	ME,NY,CT,NC,VA,NJ
cis-1,2-Dichloroethylene	ME,NY,VA,NJ
trans-1,2-Dichloroethylene	ME,NY,VA,NJ
1,2-Dichloropropane	ME,NY,VA,NJ
1,3-Dichloropropane	ME,NY,VA,NJ
2,2-Dichloropropane	ME,NY,VA,NJ
1,1-Dichloropropene	ME,NY,VA,NJ
cis-1,3-Dichloropropene	ME,NY,VA,NJ
trans-1,3-Dichloropropene	ME,NY,VA,NJ
Ethylbenzene	ME,NY,VA,NJ
Hexachlorobutadiene	ME,NY,VA,NJ
2-Hexanone (MBK)	ME,NY,VA,NJ
Isopropylbenzene (Cumene)	ME,NY,VA,NJ
p-Isopropyltoluene (p-Cymene)	NY,NJ
Methyl tert-Butyl Ether (MTBE)	NY,VA,NJ
Methylene Chloride	ME,NY,VA,NJ
4-Methyl-2-pentanone (MIBK)	NY,VA,NJ
Naphthalene	ME,NY,VA,NJ
n-Propylbenzene	NY,NJ
Styrene	ME,NY,VA,NJ
1,1,1,2-Tetrachloroethane	ME,NY,VA,NJ
1,1,2,2-Tetrachloroethane	ME,NY,VA,NJ
Tetrachloroethylene	ME,NY,CT,NC,VA,NJ
Toluene	ME,NY,VA,NJ
1,2,4-Trichlorobenzene	ME,NY,VA,NJ
1,1,1-Trichloroethane	ME,NY,VA,NJ
1,1,2-Trichloroethane	ME,NY,VA,NJ
Trichloroethylene	ME,NY,CT,NC,VA,NJ
Trichlorofluoromethane (Freon 11)	NY,VA,NJ
1,2,3-Trichloropropane	ME,NY,VA,NJ
1,2,4-Trimethylbenzene	ME,NY,VA,NJ
1,3,5-Trimethylbenzene	ME,NY,VA,NJ

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Vinyl Chloride	ME,NY,CT,NC,VA,NJ
m+p Xylene	ME,VA
o-Xylene	ME,VA
<i>SW-846 8260C in Water</i>	
Acetone	CT,NY,ME,NH,VA,NJ
Acrylonitrile	CT,NY,ME,NH,VA,NJ
tert-Amyl Methyl Ether (TAME)	NY,ME,NH,VA,NJ
Benzene	CT,NY,ME,NH,VA,NJ
Bromochloromethane	NY,ME,NH,VA,NJ
Bromodichloromethane	CT,NY,ME,NH,VA,NJ
Bromoform	CT,NY,ME,NH,VA,NJ
Bromomethane	CT,NY,ME,NH,VA,NJ
2-Butanone (MEK)	CT,NY,ME,NH,VA,NJ
tert-Butyl Alcohol (TBA)	NY,ME,NH,VA,NJ
n-Butylbenzene	NY,ME,VA,NJ
sec-Butylbenzene	NY,ME,VA,NJ
tert-Butylbenzene	NY,ME,VA,NJ
tert-Butyl Ethyl Ether (TBEE)	NY,ME,NH,VA,NJ
Carbon Disulfide	CT,NY,ME,NH,VA,NJ
Carbon Tetrachloride	CT,NY,ME,NH,VA,NJ
Chlorobenzene	CT,NY,ME,NH,VA,NJ
Chlorodibromomethane	CT,NY,ME,NH,VA,NJ
Chloroethane	CT,NY,ME,NH,VA,NJ
Chloroform	CT,NY,ME,NH,VA,NJ
Chloromethane	CT,NY,ME,NH,VA,NJ
2-Chlorotoluene	NY,ME,NH,VA,NJ
4-Chlorotoluene	NY,ME,NH,VA,NJ
Dibromomethane	NY,ME,NH,VA,NJ
1,2-Dichlorobenzene	CT,NY,ME,NH,VA,NJ
1,3-Dichlorobenzene	CT,NY,ME,NH,VA,NJ
1,4-Dichlorobenzene	CT,NY,ME,NH,VA,NJ
trans-1,4-Dichloro-2-butene	NY,ME,NH,VA,NJ
Dichlorodifluoromethane (Freon 12)	NY,ME,NH,VA,NJ
1,1-Dichloroethane	CT,NY,ME,NH,VA,NJ
1,2-Dichloroethane	CT,NY,ME,NH,VA,NJ
1,1-Dichloroethylene	CT,NY,ME,NH,VA,NJ
cis-1,2-Dichloroethylene	NY,ME,NJ
trans-1,2-Dichloroethylene	CT,NY,ME,NH,VA,NJ
1,2-Dichloropropane	CT,NY,ME,NH,VA,NJ
1,3-Dichloropropane	NY,ME,VA,NJ
2,2-Dichloropropane	NY,ME,NH,VA,NJ
1,1-Dichloropropene	NY,ME,NH,VA,NJ
cis-1,3-Dichloropropene	CT,NY,ME,NH,VA,NJ
trans-1,3-Dichloropropene	CT,NY,ME,NH,VA,NJ
Diisopropyl Ether (DIPE)	NY,ME,NH,VA,NJ
Ethylbenzene	CT,NY,ME,NH,VA,NJ

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Hexachlorobutadiene	CT,NY,ME,NH,VA,NJ
2-Hexanone (MBK)	CT,NY,ME,NH,VA,NJ
Isopropylbenzene (Cumene)	NY,ME,VA,NJ
p-Isopropyltoluene (p-Cymene)	CT,NY,ME,NH,VA,NJ
Methyl tert-Butyl Ether (MTBE)	CT,NY,ME,NH,VA,NJ
Methylene Chloride	CT,NY,ME,NH,VA,NJ
4-Methyl-2-pentanone (MIBK)	CT,NY,ME,NH,VA,NJ
Naphthalene	NY,ME,NH,VA,NJ
n-Propylbenzene	CT,NY,ME,NH,VA,NJ
Styrene	CT,NY,ME,NH,VA,NJ
1,1,1,2-Tetrachloroethane	CT,NY,ME,NH,VA,NJ
1,1,2,2-Tetrachloroethane	CT,NY,ME,NH,VA,NJ
Tetrachloroethylene	CT,NY,ME,NH,VA,NJ
Toluene	CT,NY,ME,NH,VA,NJ
1,2,3-Trichlorobenzene	NY,ME,NH,VA,NJ
1,2,4-Trichlorobenzene	CT,NY,ME,NH,VA,NJ
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NY,ME,NH,VA,NJ
1,1,2-Trichloroethane	CT,NY,ME,NH,VA,NJ
Trichloroethylene	CT,NY,ME,NH,VA,NJ
Trichlorofluoromethane (Freon 11)	CT,NY,ME,NH,VA,NJ
1,2,3-Trichloropropane	NY,ME,NH,VA,NJ
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY,VA,NJ
1,2,4-Trimethylbenzene	NY,ME,VA,NJ
1,3,5-Trimethylbenzene	NY,ME,VA,NJ
Vinyl Chloride	CT,NY,ME,NH,VA,NJ
m+p Xylene	CT,NY,ME,NH,VA
o-Xylene	CT,NY,ME,NH,VA
<i>SW-846 8270D in Water</i>	
Acenaphthene	ME,NC,NH,NY,VA,NJ
Acenaphthene	CT,NY,NC,ME,NH,VA,NJ
Acenaphthylene	CT,NY,NC,ME,NH,VA,NJ
Acenaphthylene	ME,NC,NH,NY,VA,NJ
Acetophenone	NC
Acetophenone	ME,NC,NH
Aniline	CT,NY,NC,ME,VA,NJ
Aniline	ME,NC,NH,NY,VA,NJ
Anthracene	ME,NC,NH,NY,VA,NJ
Anthracene	CT,NY,NC,ME,NH,VA,NJ
Benzidine	CT,NY,NC,ME,NH,VA,NJ
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA,NJ
Benzo(a)anthracene	ME,NC,NH,NY,VA,NJ
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA,NJ
Benzo(a)pyrene	ME,NC,NH,NY,VA,NJ
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA,NJ
Benzo(b)fluoranthene	ME,NC,NH,NY,VA,NJ

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA,NJ
Benzo(g,h,i)perylene	ME,NC,NH,NY,VA,NJ
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA,NJ
Benzo(k)fluoranthene	ME,NC,NH,NY,VA,NJ
Benzoic Acid	NY,NC,ME,NH,VA,NJ
Bis(2-chloroethoxy)methane	ME,NC,NH,NY,VA,NJ
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA,NJ
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA,NJ
Bis(2-chloroethyl)ether	ME,NC,NH,NY,VA,NJ
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA,NJ
Bis(2-chloroisopropyl)ether	ME,NC,NH,NY,VA,NJ
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA,NJ
Bis(2-Ethylhexyl)phthalate	ME,NC,NH,NY,VA,NJ
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA,NJ
4-Bromophenylphenylether	ME,NC,NH,NY,VA,NJ
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA,NJ
Butylbenzylphthalate	ME,NC,NH,NY,VA,NJ
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA,NJ
4-Chloroaniline	ME,NC,NH,NY,VA,NJ
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA,NJ
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA,NJ
2-Chloronaphthalene	NC,NY,VA,NJ
2-Chlorophenol	ME,NC,NH,NY,VA,NJ
2-Chlorophenol	CT,NY,NC,ME,NH,VA,NJ
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA,NJ
Chrysene	CT,NY,NC,ME,NH,VA,NJ
Chrysene	ME,NC,NH,NY,VA,NJ
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA,NJ
Dibenz(a,h)anthracene	ME,NC,NH,NY,VA,NJ
Dibenzofuran	CT,NY,NC,ME,NH,VA,NJ
Dibenzofuran	ME,NC,NH,NY,VA,NJ
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA,NJ
Di-n-butylphthalate	ME,NC,NH,NY,VA,NJ
1,2-Dichlorobenzene	ME,NC,NH,NY,VA,NJ
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA,NJ
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA,NJ
1,3-Dichlorobenzene	ME,NC,NH,NY,VA,NJ
1,4-Dichlorobenzene	ME,NC,NH,NY,VA,NJ
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA,NJ
3,3-Dichlorobenzidine	ME,NC,NH,NY,VA,NJ
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA,NJ
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA,NJ
2,4-Dichlorophenol	ME,NC,NH,NY,VA,NJ
Diethylphthalate	ME,NC,NH,NY,VA,NJ
Diethylphthalate	CT,NY,NC,ME,NH,VA,NJ
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA,NJ

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
2,4-Dimethylphenol	ME,NC,NH,NY,VA,NJ
Dimethylphthalate	ME,NC,NH,NY,VA,NJ
Dimethylphthalate	CT,NY,NC,ME,NH,VA,NJ
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA,NJ
2,4-Dinitrophenol	ME,NC,NH,NY,VA,NJ
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA,NJ
2,4-Dinitrotoluene	ME,NC,NH,CT,NY,VA,NJ
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA,NJ
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA,NJ
2,6-Dinitrotoluene	ME,NC,NH,NY,VA,NJ
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA,NJ
Di-n-octylphthalate	ME,NC,NH,NY,VA,NJ
1,2-Diphenylhydrazine (as Azobenzene)	ME,NC,NH
1,2-Diphenylhydrazine (as Azobenzene)	NC
Fluoranthene	CT,NY,NC,ME,NH,VA,NJ
Fluoranthene	ME,NC,NH,NY,VA,NJ
Fluorene	ME,NC,NH,NY,VA,NJ
Fluorene	NY,NC,ME,NH,VA,NJ
Hexachlorobenzene	CT,NY,NC,ME,NH,VA,NJ
Hexachlorobenzene	ME,NC,NH,CT,NY,VA,NJ
Hexachlorobutadiene	ME,NC,NH,CT,NY,VA,NJ
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA,NJ
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA,NJ
Hexachloroethane	ME,NC,NH,CT,NY,VA,NJ
Hexachloroethane	CT,NY,NC,ME,NH,VA,NJ
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA,NJ
Indeno(1,2,3-cd)pyrene	ME,NC,NH,NY,VA,NJ
Isophorone	CT,NY,NC,ME,NH,VA,NJ
Isophorone	ME,NC,NH,NY,VA,NJ
1-Methylnaphthalene	NC
2-Methylnaphthalene	ME,NC,NH,NY,VA,NJ
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA,NJ
2-Methylphenol	CT,NY,NC,NH,VA,NJ
2-Methylphenol	ME,NC,NH,CT
3/4-Methylphenol	ME,NC,NH,CT
3/4-Methylphenol	CT,NY,NC,NH,VA,NJ
Naphthalene	CT,NY,NC,ME,NH,VA,NJ
Naphthalene	ME,NC,NH,NY,VA,NJ
2-Nitroaniline	CT,NY,NC,ME,NH,VA,NJ
3-Nitroaniline	CT,NY,NC,ME,NH,VA,NJ
4-Nitroaniline	CT,NY,NC,ME,NH,VA,NJ
Nitrobenzene	ME,NC,NH,CT,NY,VA,NJ
Nitrobenzene	CT,NY,NC,ME,NH,VA,NJ
2-Nitrophenol	ME,NC,NH,NY,VA,NJ
2-Nitrophenol	CT,NY,NC,ME,NH,VA,NJ
4-Nitrophenol	CT,NY,NC,ME,NH,VA,NJ
4-Nitrophenol	ME,NC,NH,NY,VA,NJ

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
N-Nitrosodimethylamine	CT,NY,NC,ME,NH,VA,NJ
N-Nitrosodiphenylamine	CT,NY,NC,ME,NH,VA,NJ
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA,NJ
Pentachloronitrobenzene	NC
Pentachlorophenol	CT,NY,NC,ME,NH,VA,NJ
Pentachlorophenol	ME,NC,NH,CT,NY,VA,NJ
Phenanthrene	ME,NC,NH,NY,VA,NJ
Phenanthrene	CT,NY,NC,ME,NH,VA,NJ
Phenol	ME,NC,NH,NY,VA,NJ
Phenol	CT,NY,NC,ME,NH,VA,NJ
Pyrene	CT,NY,NC,ME,NH,VA,NJ
Pyrene	ME,NC,NH,NY,VA,NJ
Pyridine	CT,NY,NC,ME,NH,VA,NJ
Pyridine	ME,NC,NH,CT,NY,VA,NJ
1,2,4,5-Tetrachlorobenzene	NC
1,2,4-Trichlorobenzene	ME,NC,NH,NY,VA,NJ
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA,NJ
2,4,5-Trichlorophenol	ME,NC,NH,CT,NY,VA,NJ
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA,NJ
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA,NJ
2,4,6-Trichlorophenol	ME,NC,NH,CT,NY,VA,NJ
2-Fluorophenol	NC
2-Fluorophenol	NC

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

Pace Analytical e-Report

Report prepared for:

CON-TEST ANALYTICAL LABORATORY
39 SPRUCE STREET
EAST LONGMEADOW, MA 01028
CONTACT: AARON BENOIT

Project ID: 14B0291

Sampling Date(s): February 11, 2014

Lab Report ID: 14020235

Client Service Contact: Chelsea Farmer (518) 346-4592 ext. 3843

Analysis Included:

Flashpoint

Ignitability

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Dan Pfalzer
Laboratory Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337),
Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

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Table of Contents

Section 1: CASE NARRATIVE	4
Section 2: QUALIFIERS	6
Section 3: SAMPLE CHAIN OF CUSTODY	8
Section 4: SAMPLE RECEIPT	10
Section 5: Wet Chemistry - Flashpoint	12

1

2

3

4

5

CASE NARRATIVE

February 14, 2014

CASE NARRATIVE

This data package (SDG ID: 14020235) consists of 1 water sample and 4 soil samples received on 02/13/2014. The samples are from Project Name: 14B0291.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	<u>Client ID</u>	<u>Collection Date</u>
AR03311	14B0291-01	02/11/2014 10:00
AR03312	14B0291-02	02/11/2014 11:20
AR03313	14B0291-03	02/11/2014 12:30
AR03314	14B0291-04	02/11/2014 12:30
AR03315	14B0291-05	02/11/2014 12:40

Sample Delivery and Receipt Conditions

- (1.) All samples were delivered to the laboratory via FEDEX delivery service on 02/13/2014.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

Flashpoint Analysis

Analysis for flashpoint was performed by Pensky-Martens SW-846 1010A. The following technical and administrative items were noted for the analysis:

- (1.) All quality assurance parameters were met for the analysis.

Ignitability Analysis

Analysis for ignitability was performed by method SW-846 1030. The following technical and administrative items were noted for the analysis:

- (1.) All quality assurance parameters were met for the analysis.

Respectfully submitted,



Chelsea L. Farmer
Project Manager

QUALIFIERS

Qualifier Definitions

Organic Laboratory Qualifiers

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate recovery not evaluated against control limits due to sample dilution.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

* - Value not within control limits.

Inorganic Laboratory Qualifiers

B - Denotes analyte observed in associated method blank or digestion blank. Analyte concentration should be considered as estimated.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

* - Value not within control limits.

SAMPLE CHAIN OF CUSTODY

SUBCONTRACT ORDER
Con-Test Analytical Laboratory
14B0291

Subcontract lab must notify Con-Test Analytical Lab of any MCL exceedance within 24-hours of obtaining valid data.

SENDING LABORATORY:

Con-Test Analytical Laboratory
 39 Spruce Street
 East Longmeadow, MA 01028
 Phone: 413.525.2332
 Fax: 413.525.6405
 Project Manager: Aaron L. Benoit

RECEIVING LABORATORY:

Pace Analytical Services - NY
 2190 Technology Drive
 Schenectady, NY 12308
 Phone : (518) 429-5058
 Fax: (518) 381-6055

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 14B0291-01	Soil	Sampled: 02/11/14 10:00		
Ignitability by SW846 1030	02/14/14 16:00	03/11/14 10:00		
Containers Supplied: 2 oz clear glass (E)				
Sample ID: 14B0291-02	Soil	Sampled: 02/11/14 11:20		
Ignitability by SW846 1030	02/14/14 16:00	03/11/14 11:20		
Containers Supplied: 2 oz clear glass (E)				
Sample ID: 14B0291-03	Soil	Sampled: 02/11/14 12:30		
Ignitability by SW846 1030	02/14/14 16:00	03/11/14 12:30		
Containers Supplied: 2 oz clear glass (E)				
Sample ID: 14B0291-04	Water	Sampled: 02/11/14 12:30		
Flashpoint (Closed Cup) by SW02/14/14 16:00	02/25/14 12:30			
Containers Supplied: 250 mL plastic Unpreserv				
Sample ID: 14B0291-05	Product/s	Sampled: 02/11/14 12:40		
Ignitability by SW846 1030	02/14/14 16:00	03/11/14 12:40		
Containers Supplied: 2 oz clear glass (E)				



<14020235P1>

Temp: 1.4°C (1R)


 Date: 2/12/14/200
 Received By: Fed ex
 Date: 2/13/14 11:59
 Received By: Matt Minn
 Date: 2/13/14 11:59

SAMPLE RECEIPT

4



SAMPLE RECEIPT REPORT

14020235

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

CLIENT: CON-TEST ANALYTICAL LABORATORY
PROJECT: 14B0291
LRF: 14020235
REPORT: ANALYTICAL REPORT
EDD: YES
LRF TAT: *1 DAY*

RECEIVED DATE: 02/13/2014 11:59
SHIPPED VIA: FEDEX
SHIPPING ID: 797902317091
NUMBER OF COOLERS: 1
CUSTODY SEAL INTACT: NA
COOLER STATUS: CHILLED
TEMPERATURE(S): 5.4 (IR) °C
SAMPLE SEALS INTACT: NA
SAMPLES PRESERVED PER METHOD GUIDANCE: YES
SAMPLES REC'D IN HOLDTIME: YES
DISPOSAL: BY LAB (45 DAYS)
COC DISCREPANCY: NO

COMMENTS:

ANALYSIS ON COC (INGNITABILITY BY SW846 1030) FOR SAMPLES "14B0291-01", AND "14B0291-05" DOES NOT MATCH SAMPLE CONTAINER (TCLP VOC).

CLIENT ID (LAB ID)	TAT-DUE Date ⁴	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
14B0291-01 (AR03311)	*1 DAY* 02-14-14	02/11/2014 10:00	Soil	SW-846 1030	Ignitability	
14B0291-02 (AR03312)	*1 DAY* 02-14-14	02/11/2014 11:20	Soil	SW-846 1030	Ignitability	
14B0291-03 (AR03313)	*1 DAY* 02-14-14	02/11/2014 12:30	Soil	SW-846 1030	Ignitability	
14B0291-04 (AR03314)	*1 DAY* 02-14-14	02/11/2014 12:30	Water	SW-846 1010A	Flashpoint	
14B0291-05 (AR03315)	*1 DAY* 02-14-14	02/11/2014 12:40	Soil	SW-846 1030	Ignitability	

¹The pH preservation check of Oil and Grease (Method 1664) is performed as soon as possible after sample receipt and may not be included in this report.

²The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.

³Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.

⁴Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.

⁵All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

Reporting Parameters and Lists

SW-846 1010A - Flashpoint - (°F)

Flashpoint

SW-846 1030 - Ignitability - (mm/sec)

Burning Rate

Ignitability

Wet Chemistry - Flashpoint

5



Analytical Sample Results

Job Number: 14020235

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: CON-TEST ANALYTICAL LABORATORY

Project: 14B0291

Client Sample ID: 14B0291-01

Lab Sample ID: 14020235-01 (AR03311)

Collection Date: 02/11/2014 10:00

Sample Matrix: SOIL

Received Date: 02/13/2014 11:59

Percent Solid: 89.2 - Results are based on dry weight unless otherwise noted.

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	Ignitability by EPA SW-846 1030	02/13/2014 14:27	MGK	NA	NA	NA

Analyte	CAS No.	Result	Dilution Factor	Flags	File ID
Ignitability	NA	Non-Flammable	0.00		

Results are not adjusted for dry weight.



Analytical Sample Results

Job Number: 14020235

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: CON-TEST ANALYTICAL LABORATORY

Project: 14B0291

Client Sample ID: 14B0291-02

Lab Sample ID: 14020235-02 (AR03312)

Collection Date: 02/11/2014 11:20

Sample Matrix: SOIL

Received Date: 02/13/2014 11:59

Percent Solid: 87.5 - Results are based on dry weight unless otherwise noted.

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	Ignitability by EPA SW-846 1030	02/13/2014 14:34	MGK	NA	NA	NA

Analyte	CAS No.	Result	Dilution Factor	Flags	File ID
Ignitability	NA	Non-Flammable	0.00		

Results are not adjusted for dry weight.

5



Analytical Sample Results

Job Number: 14020235

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: CON-TEST ANALYTICAL LABORATORY

Project: 14B0291

Client Sample ID: 14B0291-03

Lab Sample ID: 14020235-03 (AR03313)

Collection Date: 02/11/2014 12:30

Sample Matrix: SOIL

Received Date: 02/13/2014 11:59

Percent Solid: 89.5 - Results are based on dry weight unless otherwise noted.

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	Ignitability by EPA SW-846 1030	02/13/2014 14:40	MGK	NA	NA	NA

Analyte	CAS No.	Result	Dilution Factor	Flags	File ID
Ignitability	NA	Non-Flammable	0.00		

Results are not adjusted for dry weight.

5



Analytical Sample Results

Job Number: 14020235

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: CON-TEST ANALYTICAL LABORATORY

Project: 14B0291

Client Sample ID: 14B0291-04

Lab Sample ID: 14020235-04 (AR03314)

Collection Date: 02/11/2014 12:30

Sample Matrix: WATER

Received Date: 02/13/2014 11:59

Percent Solid: N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	Flashpoint by Pensky-Martens EPA SW-846	102/13/2014 13:00	MGK	NA	NA	NA

Analyte	CAS No.	Result (°F)	PQL	Dilution Factor	Flags	File ID
Flashpoint	NA	> 200	0.00	0.00		

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Analytical Sample Results

Job Number: 14020235

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: CON-TEST ANALYTICAL LABORATORY

Project: 14B0291

Client Sample ID: 14B0291-05

Lab Sample ID: 14020235-05 (AR03315)

Collection Date: 02/11/2014 12:40

Sample Matrix: SOIL

Received Date: 02/13/2014 11:59

Percent Solid: 89.7 - Results are based on dry weight unless otherwise noted.

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	Ignitability by EPA SW-846 1030	02/13/2014 14:50	MGK	NA	NA	NA

Analyte	CAS No.	Result	Dilution Factor	Flags	File ID
Ignitability	NA	Non-Flammable	0.00		

Results are not adjusted for dry weight.

Page 1 of 1Page 88 of 91 14B0291 2 Contest Final 02 14 14 1658 02/14/14 16:59:15

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-0405
www.contestlabs.com



Page 1 of 2

Sample Receipt Checklist

CLIENT NAME: WSP

RECEIVED BY: CEC

DATE: 2/12/14

1) Was the chain(s) of custody relinquished and signed?

☒ Yes

No

No CoC included

2) Does the chain agree with the samples?

☒ Yes

No

If not, explain:

3) Are all the samples in good condition?

☒ Yes

No

If not, explain:

4) How were the samples received:

On Ice ☒

Direct from Sampling ☐

Ambient ☐

In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)?

☒ Yes

No

N/A

Temperature °C by Temp blank 3.0

Temperature °C by Temp gun

5) Are there Dissolved samples for the lab to filter?

Yes

☒ No

Who was notified

Date

Time

6) Are there any RUSH or SHORT HOLDING TIME samples?

☒ Yes

No

Who was notified 6:11 L.

Date 2/12/14

Time 10:15

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No

(Walk-in clients only) if not already approved

Client Signature:

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	<u>4</u>	8 oz amber/clear jar	<u>12</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	<u>7</u>
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl

Methanol

Time and Date Frozen:

Doc# 277

Disulfate

DI Water

Rev. 4 August 2013

Thiosulfate

Unpreserved

IMPORTANT!

Severe winter weather is causing delays and disruptions across the U.S. Learn More

**801005213028**Ship (PU) date
Tues 2/11/2014 5:09 pm
CAZENOVIA, NY US**Delivered**

Shipped by: 12, 2, 2, 0, 0, 0, 5

Actual delivery
Wed 2/12/2014 9:49 am
MA US**Travel History**

▲ Date/Time	Activity	Location
• 2/12/2014 • Wednesday		
9:49 am	Delivered	MA
8:18 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:36 am	At local FedEx facility	WINDSOR LOCKS, CT
3:55 am	Departed FedEx location	NEWARK, NJ
• 2/11/2014 • Tuesday		
11:57 pm	Arrived at FedEx location	NEWARK, NJ
8:23 pm	Left FedEx origin facility	NORTH SYRACUSE, NY
6:09 pm	Picked up	NORTH SYRACUSE, NY

Local Scan Time

Shipment Facts

Tracking number	801005213028	Service	FedEx Priority Overnight
Weight	56 lbs	Dimensions	24x14x14 in.
Signature services	Direct signature required	Delivered To	Shipping/Receiving
Total pieces	1	Total shipment weight	56 lbs / 25.4 kgs
Shipper reference	5140 SITE	Packaging	Your Packaging
Special handling section	Deliver Weekday Direct Signature Required		

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Any False statement will be brought to the attention of Client		Answer (True/False)	Comment
	T/F/NA			
1) The cooler's custody seal, if present, is intact.			T	
2) The cooler or samples do not appear to have been compromised or tampered with.			T	
3) Samples were received on ice.			T	
4) Cooler Temperature is acceptable.			T	
5) Cooler Temperature is recorded.			T	
6) COC is filled out in ink and legible.			T	
7) COC is filled out with all pertinent information			T	
8) Field Sampler's name present on COC.			T	
9) There are no discrepancies between the sample IDs on the container and the COC.			T	
10) Samples are received within Holding Time.			T	
11) Sample containers have legible labels.			T	
12) Containers are not broken or leaking.			T	
13) Air Cassettes are not broken/open.			T	
14) Sample collection date/times are provided.			T	
15) Appropriate sample containers are used.			T	
16) Proper collection media used.			NA	
17) No headspace sample bottles are completely filled.			NA	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.			T	
19) Trip blanks provided if applicable.			NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.			NA	
21) Samples do not require splitting or compositing.			T	

Doc #277 Rev. 4 August 2013

Who notified of False statements?

Log-In Technician Initials:

CFL

Date/Time:

Date/Time:

2/12/14 0949

February 20, 2014

Dave Bouchard
WSP
5 Sullivan Street
Cazenovia, NY 13035

Project Location: 5140 Commercial Dr. Yorkville, NY
Client Job Number:
Project Number: E0032927.000/05
Laboratory Work Order Number: 14B0474

Enclosed are results of analyses for samples received by the laboratory on February 19, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in dark ink, appearing to read "Aaron L. Benoit", followed by a horizontal line.

Aaron L. Benoit
Project Manager



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

WSP
5 Sullivan Street
Cazenovia, NY 13035
ATTN: Dave Bouchard

REPORT DATE: 2/20/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: E0032927.000/05

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14B0474

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

PROJECT LOCATION: 5140 Commercial Dr. Yorkville, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Slab-35N-5E	14B0474-01	Soil		SM 2540G SW-846 8082A	
Slab-35N-15E	14B0474-02	Soil		SM 2540G SW-846 8082A	
Slab-35N-25E	14B0474-03	Soil		SM 2540G SW-846 8082A	
Slab-45N-5E	14B0474-04	Soil		SM 2540G SW-846 8082A	
Slab-45N-15E	14B0474-05	Soil		SM 2540G SW-846 8082A	
Slab-45N-25E	14B0474-06	Soil		SM 2540G SW-846 8082A	
Slab-45N-35E	14B0474-07	Soil		SM 2540G SW-846 8082A	
Slab-45N-45E	14B0474-08	Soil		SM 2540G SW-846 8082A	
Slab-55N-5E	14B0474-09	Soil		SM 2540G SW-846 8082A	
Slab-55N-15E	14B0474-10	Soil		SM 2540G SW-846 8082A	
Slab-55N-25E	14B0474-11	Soil		SM 2540G SW-846 8082A	
Slab-55N-35E	14B0474-12	Soil		SM 2540G SW-846 8082A	
Slab-55N-45E	14B0474-13	Soil		SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

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

SW-846 8082A

Qualifications:

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]

14B0474-02[Slab-35N-15E], 14B0474-03[Slab-35N-25E], 14B0474-04[Slab-45N-5E], 14B0474-05[Slab-45N-15E], 14B0474-06[Slab-45N-25E], 14B0474-07[Slab-45N-35E], 14B0474-10[Slab-55N-15E], 14B0474-11[Slab-55N-25E], 14B0474-12[Slab-55N-35E]

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

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



Daren J. Damboragian
Laboratory Manager

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

Project Location: 5140 Commercial Dr. Yorkville, N Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-35N-5E

Sampled: 2/18/2014 13:30

Sample ID: 14B0474-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/19/14	2/19/14 22:14	MJC
Aroclor-1221 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/19/14	2/19/14 22:14	MJC
Aroclor-1232 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/19/14	2/19/14 22:14	MJC
Aroclor-1242 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/19/14	2/19/14 22:14	MJC
Aroclor-1248 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/19/14	2/19/14 22:14	MJC
Aroclor-1254 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/19/14	2/19/14 22:14	MJC
Aroclor-1260 [2]	0.17	0.022	mg/Kg dry	1		SW-846 8082A	2/19/14	2/19/14 22:14	MJC
Aroclor-1262 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/19/14	2/19/14 22:14	MJC
Aroclor-1268 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/19/14	2/19/14 22:14	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	122	30-150							
Decachlorobiphenyl [2]	94.0	30-150							
Tetrachloro-m-xylene [1]	109	30-150							
Tetrachloro-m-xylene [2]	99.1	30-150							



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

Project Location: 5140 Commercial Dr. Yorkville, N

Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-35N-5E

Sampled: 2/18/2014 13:30

Sample ID: 14B0474-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.2		% Wt	1		SM 2540G	2/20/14	2/20/14 10:47	MXG

Project Location: 5140 Commercial Dr. Yorkville, N

Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-35N-15E

Sampled: 2/18/2014 13:35

Sample ID: 14B0474-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/19/14	2/20/14 10:01	PJG
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/19/14	2/20/14 10:01	PJG
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/19/14	2/20/14 10:01	PJG
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/19/14	2/20/14 10:01	PJG
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/19/14	2/20/14 10:01	PJG
Aroclor-1254 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/19/14	2/20/14 10:01	PJG
Aroclor-1260 [2]	7.6	1.1	mg/Kg dry	50		SW-846 8082A	2/19/14	2/20/14 10:01	PJG
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/19/14	2/20/14 10:01	PJG
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/19/14	2/20/14 10:01	PJG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			2/20/14 10:01	
Decachlorobiphenyl [2]	*	30-150			S-01			2/20/14 10:01	
Tetrachloro-m-xylene [1]	*	30-150			S-01			2/20/14 10:01	
Tetrachloro-m-xylene [2]	*	30-150			S-01			2/20/14 10:01	



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

Project Location: 5140 Commercial Dr. Yorkville, N

Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-35N-15E

Sampled: 2/18/2014 13:35

Sample ID: 14B0474-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.0		% Wt	1		SM 2540G	2/20/14	2/20/14 10:47	MXG

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

Project Location: 5140 Commercial Dr. Yorkville, N

Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-35N-25E

Sampled: 2/18/2014 13:40

Sample ID: 14B0474-03

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/19/14	2/20/14 10:13	PJG
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/19/14	2/20/14 10:13	PJG
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/19/14	2/20/14 10:13	PJG
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/19/14	2/20/14 10:13	PJG
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/19/14	2/20/14 10:13	PJG
Aroclor-1254 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/19/14	2/20/14 10:13	PJG
Aroclor-1260 [2]	4.4	1.1	mg/Kg dry	50		SW-846 8082A	2/19/14	2/20/14 10:13	PJG
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/19/14	2/20/14 10:13	PJG
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/19/14	2/20/14 10:13	PJG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			2/20/14 10:13	
Decachlorobiphenyl [2]	*	30-150			S-01			2/20/14 10:13	
Tetrachloro-m-xylene [1]	*	30-150			S-01			2/20/14 10:13	
Tetrachloro-m-xylene [2]	*	30-150			S-01			2/20/14 10:13	



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

Project Location: 5140 Commercial Dr. Yorkville, N

Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-35N-25E

Sampled: 2/18/2014 13:40

Sample ID: 14B0474-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.1		% Wt	1		SM 2540G	2/20/14	2/20/14 10:47	MXG

Project Location: 5140 Commercial Dr. Yorkville, N

Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-45N-5E

Sampled: 2/18/2014 13:45

Sample ID: 14B0474-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 10:50	PJG
Aroclor-1221 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 10:50	PJG
Aroclor-1232 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 10:50	PJG
Aroclor-1242 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 10:50	PJG
Aroclor-1248 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 10:50	PJG
Aroclor-1254 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 10:50	PJG
Aroclor-1260 [2]	51	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 10:50	PJG
Aroclor-1262 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 10:50	PJG
Aroclor-1268 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 10:50	PJG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			2/20/14 10:50	
Decachlorobiphenyl [2]	*	30-150			S-01			2/20/14 10:50	
Tetrachloro-m-xylene [1]	*	30-150			S-01			2/20/14 10:50	
Tetrachloro-m-xylene [2]	*	30-150			S-01			2/20/14 10:50	



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

Project Location: 5140 Commercial Dr. Yorkville, N

Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-45N-5E

Sampled: 2/18/2014 13:45

Sample ID: 14B0474-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.4		% Wt	1		SM 2540G	2/20/14	2/20/14 10:47	MXG

Project Location: 5140 Commercial Dr. Yorkville, N

Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-45N-15E

Sampled: 2/18/2014 13:50

Sample ID: 14B0474-05

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.5	mg/Kg dry	100		SW-846 8082A	2/19/14	2/20/14 11:02	PJG
Aroclor-1221 [1]	ND	2.5	mg/Kg dry	100		SW-846 8082A	2/19/14	2/20/14 11:02	PJG
Aroclor-1232 [1]	ND	2.5	mg/Kg dry	100		SW-846 8082A	2/19/14	2/20/14 11:02	PJG
Aroclor-1242 [1]	ND	2.5	mg/Kg dry	100		SW-846 8082A	2/19/14	2/20/14 11:02	PJG
Aroclor-1248 [1]	ND	2.5	mg/Kg dry	100		SW-846 8082A	2/19/14	2/20/14 11:02	PJG
Aroclor-1254 [1]	ND	2.5	mg/Kg dry	100		SW-846 8082A	2/19/14	2/20/14 11:02	PJG
Aroclor-1260 [2]	9.8	2.5	mg/Kg dry	100		SW-846 8082A	2/19/14	2/20/14 11:02	PJG
Aroclor-1262 [1]	ND	2.5	mg/Kg dry	100		SW-846 8082A	2/19/14	2/20/14 11:02	PJG
Aroclor-1268 [1]	ND	2.5	mg/Kg dry	100		SW-846 8082A	2/19/14	2/20/14 11:02	PJG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			2/20/14 11:02	
Decachlorobiphenyl [2]	*	30-150			S-01			2/20/14 11:02	
Tetrachloro-m-xylene [1]	*	30-150			S-01			2/20/14 11:02	
Tetrachloro-m-xylene [2]	*	30-150			S-01			2/20/14 11:02	



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

Project Location: 5140 Commercial Dr. Yorkville, N

Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-45N-15E

Sampled: 2/18/2014 13:50

Sample ID: 14B0474-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.2		% Wt	1		SM 2540G	2/20/14	2/20/14 10:47	MXG

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

Project Location: 5140 Commercial Dr. Yorkville, N

Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-45N-25E

Sampled: 2/18/2014 13:55

Sample ID: 14B0474-06

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 11:14	PJG
Aroclor-1221 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 11:14	PJG
Aroclor-1232 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 11:14	PJG
Aroclor-1242 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 11:14	PJG
Aroclor-1248 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 11:14	PJG
Aroclor-1254 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 11:14	PJG
Aroclor-1260 [2]	50	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 11:14	PJG
Aroclor-1262 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 11:14	PJG
Aroclor-1268 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 11:14	PJG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			2/20/14 11:14	
Decachlorobiphenyl [2]	*	30-150			S-01			2/20/14 11:14	
Tetrachloro-m-xylene [1]	*	30-150			S-01			2/20/14 11:14	
Tetrachloro-m-xylene [2]	*	30-150			S-01			2/20/14 11:14	



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

Project Location: 5140 Commercial Dr. Yorkville, N

Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-45N-25E

Sampled: 2/18/2014 13:55

Sample ID: 14B0474-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9		% Wt	1		SM 2540G	2/20/14	2/20/14 10:47	MXG

Project Location: 5140 Commercial Dr. Yorkville, N

Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-45N-35E

Sampled: 2/18/2014 14:00

Sample ID: 14B0474-07

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	20	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 11:27	PJG
Aroclor-1221 [1]	ND	20	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 11:27	PJG
Aroclor-1232 [1]	ND	20	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 11:27	PJG
Aroclor-1242 [1]	ND	20	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 11:27	PJG
Aroclor-1248 [1]	ND	20	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 11:27	PJG
Aroclor-1254 [1]	ND	20	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 11:27	PJG
Aroclor-1260 [2]	ND	20	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 11:27	PJG
Aroclor-1262 [1]	ND	20	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 11:27	PJG
Aroclor-1268 [1]	ND	20	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 11:27	PJG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			2/20/14 11:27	
Decachlorobiphenyl [2]	*	30-150			S-01			2/20/14 11:27	
Tetrachloro-m-xylene [1]	*	30-150			S-01			2/20/14 11:27	
Tetrachloro-m-xylene [2]	*	30-150			S-01			2/20/14 11:27	



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

Project Location: 5140 Commercial Dr. Yorkville, N

Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-45N-35E

Sampled: 2/18/2014 14:00

Sample ID: 14B0474-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	866		% Wt	1		SM 2540G	2/20/14	2/20/14 10:47	MXG

Project Location: 5140 Commercial Dr. Yorkville, N

Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-45N-45E

Sampled: 2/18/2014 14:05

Sample ID: 14B0474-08

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 11:39	PJG
Aroclor-1221 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 11:39	PJG
Aroclor-1232 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 11:39	PJG
Aroclor-1242 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 11:39	PJG
Aroclor-1248 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 11:39	PJG
Aroclor-1254 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 11:39	PJG
Aroclor-1260 [2]	0.52	0.22	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 11:39	PJG
Aroclor-1262 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 11:39	PJG
Aroclor-1268 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 11:39	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	112	30-150							
Decachlorobiphenyl [2]	113	30-150							
Tetrachloro-m-xylene [1]	102	30-150							
Tetrachloro-m-xylene [2]	95.7	30-150							



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

Project Location: 5140 Commercial Dr. Yorkville, N

Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-45N-45E

Sampled: 2/18/2014 14:05

Sample ID: 14B0474-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.8		% Wt	1		SM 2540G	2/20/14	2/20/14 10:47	MXG

Project Location: 5140 Commercial Dr. Yorkville, N

Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-55N-5E

Sampled: 2/18/2014 14:10

Sample ID: 14B0474-09

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 11:52	PJG
Aroclor-1221 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 11:52	PJG
Aroclor-1232 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 11:52	PJG
Aroclor-1242 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 11:52	PJG
Aroclor-1248 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 11:52	PJG
Aroclor-1254 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 11:52	PJG
Aroclor-1260 [2]	1.4	0.22	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 11:52	PJG
Aroclor-1262 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 11:52	PJG
Aroclor-1268 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 11:52	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	107	30-150							
Decachlorobiphenyl [2]	107	30-150							
Tetrachloro-m-xylene [1]	97.8	30-150							
Tetrachloro-m-xylene [2]	91.5	30-150							



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

Project Location: 5140 Commercial Dr. Yorkville, N

Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-55N-5E

Sampled: 2/18/2014 14:10

Sample ID: 14B0474-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.0		% Wt	1		SM 2540G	2/20/14	2/20/14 10:47	MXG

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

Project Location: 5140 Commercial Dr. Yorkville, N Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-55N-15E

Sampled: 2/18/2014 14:15

Sample ID: 14B0474-10

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.5	mg/Kg dry	200		SW-846 8082A	2/19/14	2/20/14 12:04	PJG
Aroclor-1221 [1]	ND	4.5	mg/Kg dry	200		SW-846 8082A	2/19/14	2/20/14 12:04	PJG
Aroclor-1232 [1]	ND	4.5	mg/Kg dry	200		SW-846 8082A	2/19/14	2/20/14 12:04	PJG
Aroclor-1242 [1]	ND	4.5	mg/Kg dry	200		SW-846 8082A	2/19/14	2/20/14 12:04	PJG
Aroclor-1248 [1]	ND	4.5	mg/Kg dry	200		SW-846 8082A	2/19/14	2/20/14 12:04	PJG
Aroclor-1254 [1]	ND	4.5	mg/Kg dry	200		SW-846 8082A	2/19/14	2/20/14 12:04	PJG
Aroclor-1260 [2]	20	4.5	mg/Kg dry	200		SW-846 8082A	2/19/14	2/20/14 12:04	PJG
Aroclor-1262 [1]	ND	4.5	mg/Kg dry	200		SW-846 8082A	2/19/14	2/20/14 12:04	PJG
Aroclor-1268 [1]	ND	4.5	mg/Kg dry	200		SW-846 8082A	2/19/14	2/20/14 12:04	PJG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			2/20/14 12:04	
Decachlorobiphenyl [2]	*	30-150			S-01			2/20/14 12:04	
Tetrachloro-m-xylene [1]	*	30-150			S-01			2/20/14 12:04	
Tetrachloro-m-xylene [2]	*	30-150			S-01			2/20/14 12:04	



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

Project Location: 5140 Commercial Dr. Yorkville, N

Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-55N-15E

Sampled: 2/18/2014 14:15

Sample ID: 14B0474-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.8		% Wt	1		SM 2540G	2/20/14	2/20/14 10:47	MXG

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

Project Location: 5140 Commercial Dr. Yorkville, N Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-55N-25E

Sampled: 2/18/2014 14:20

Sample ID: 14B0474-11

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 12:17	PJG
Aroclor-1221 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 12:17	PJG
Aroclor-1232 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 12:17	PJG
Aroclor-1242 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 12:17	PJG
Aroclor-1248 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 12:17	PJG
Aroclor-1254 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 12:17	PJG
Aroclor-1260 [2]	59	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 12:17	PJG
Aroclor-1262 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 12:17	PJG
Aroclor-1268 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 12:17	PJG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			2/20/14 12:17	
Decachlorobiphenyl [2]	*	30-150			S-01			2/20/14 12:17	
Tetrachloro-m-xylene [1]	*	30-150			S-01			2/20/14 12:17	
Tetrachloro-m-xylene [2]	*	30-150			S-01			2/20/14 12:17	



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

Project Location: 5140 Commercial Dr. Yorkville, N

Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-55N-25E

Sampled: 2/18/2014 14:20

Sample ID: 14B0474-11

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.9		% Wt	1		SM 2540G	2/20/14	2/20/14 10:47	MXG

Project Location: 5140 Commercial Dr. Yorkville, N

Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-55N-35E

Sampled: 2/18/2014 14:25

Sample ID: 14B0474-12

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 12:29	PJG
Aroclor-1221 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 12:29	PJG
Aroclor-1232 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 12:29	PJG
Aroclor-1242 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 12:29	PJG
Aroclor-1248 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 12:29	PJG
Aroclor-1254 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 12:29	PJG
Aroclor-1260 [2]	41	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 12:29	PJG
Aroclor-1262 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 12:29	PJG
Aroclor-1268 [1]	ND	23	mg/Kg dry	1000		SW-846 8082A	2/19/14	2/20/14 12:29	PJG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			2/20/14 12:29	
Decachlorobiphenyl [2]	*	30-150			S-01			2/20/14 12:29	
Tetrachloro-m-xylene [1]	*	30-150			S-01			2/20/14 12:29	
Tetrachloro-m-xylene [2]	*	30-150			S-01			2/20/14 12:29	



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

Project Location: 5140 Commercial Dr. Yorkville, N

Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-55N-35E

Sampled: 2/18/2014 14:25

Sample ID: 14B0474-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.5		% Wt	1		SM 2540G	2/20/14	2/20/14 10:47	MXG

Project Location: 5140 Commercial Dr. Yorkville, N Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-55N-45E

Sampled: 2/18/2014 14:30

Sample ID: 14B0474-13

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 12:42	PJG
Aroclor-1221 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 12:42	PJG
Aroclor-1232 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 12:42	PJG
Aroclor-1242 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 12:42	PJG
Aroclor-1248 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 12:42	PJG
Aroclor-1254 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 12:42	PJG
Aroclor-1260 [2]	1.8	0.24	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 12:42	PJG
Aroclor-1262 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 12:42	PJG
Aroclor-1268 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	2/19/14	2/20/14 12:42	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	110	30-150							
Decachlorobiphenyl [2]	108	30-150							
Tetrachloro-m-xylene [1]	95.3	30-150							
Tetrachloro-m-xylene [2]	89.1	30-150							



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

Project Location: 5140 Commercial Dr. Yorkville, N

Sample Description:

Work Order: 14B0474

Date Received: 2/19/2014

Field Sample #: Slab-55N-45E

Sampled: 2/18/2014 14:30

Sample ID: 14B0474-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.4		% Wt	1		SM 2540G	2/20/14	2/20/14 10:47	MXG

Sample Extraction Data**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
14B0474-01 [Slab-35N-5E]	B090649	02/20/14
14B0474-02 [Slab-35N-15E]	B090649	02/20/14
14B0474-03 [Slab-35N-25E]	B090649	02/20/14
14B0474-04 [Slab-45N-5E]	B090649	02/20/14
14B0474-05 [Slab-45N-15E]	B090649	02/20/14
14B0474-06 [Slab-45N-25E]	B090649	02/20/14
14B0474-07 [Slab-45N-35E]	B090649	02/20/14
14B0474-08 [Slab-45N-45E]	B090649	02/20/14
14B0474-09 [Slab-55N-5E]	B090649	02/20/14
14B0474-10 [Slab-55N-15E]	B090649	02/20/14
14B0474-11 [Slab-55N-25E]	B090649	02/20/14
14B0474-12 [Slab-55N-35E]	B090649	02/20/14
14B0474-13 [Slab-55N-45E]	B090649	02/20/14

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14B0474-01 [Slab-35N-5E]	B090593	10.0	10.0	02/19/14
14B0474-02 [Slab-35N-15E]	B090593	10.0	10.0	02/19/14
14B0474-03 [Slab-35N-25E]	B090593	10.2	10.0	02/19/14
14B0474-04 [Slab-45N-5E]	B090593	10.0	10.0	02/19/14
14B0474-05 [Slab-45N-15E]	B090593	10.0	10.0	02/19/14
14B0474-06 [Slab-45N-25E]	B090593	10.2	10.0	02/19/14
14B0474-07 [Slab-45N-35E]	B090593	10.1	10.0	02/19/14
14B0474-08 [Slab-45N-45E]	B090593	10.0	10.0	02/19/14
14B0474-09 [Slab-55N-5E]	B090593	10.0	10.0	02/19/14
14B0474-10 [Slab-55N-15E]	B090593	10.0	10.0	02/19/14
14B0474-11 [Slab-55N-25E]	B090593	10.0	10.0	02/19/14
14B0474-12 [Slab-55N-35E]	B090593	10.1	10.0	02/19/14
14B0474-13 [Slab-55N-45E]	B090593	10.0	10.0	02/19/14

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090593 - SW-846 3546
Blank (B090593-BLK1)

Prepared & Analyzed: 02/19/14

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.222		mg/Kg wet	0.200		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.171		mg/Kg wet	0.200		85.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.200		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.184		mg/Kg wet	0.200		92.1	30-150			

LCS (B090593-BS1)

Prepared & Analyzed: 02/19/14

Aroclor-1016	0.24	0.10	mg/Kg wet	0.200		118	40-140			
Aroclor-1016 [2C]	0.20	0.10	mg/Kg wet	0.200		101	40-140			
Aroclor-1260	0.25	0.10	mg/Kg wet	0.200		126	40-140			
Aroclor-1260 [2C]	0.27	0.10	mg/Kg wet	0.200		135	40-140			
Surrogate: Decachlorobiphenyl	0.294		mg/Kg wet	0.200		147	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.229		mg/Kg wet	0.200		114	30-150			
Surrogate: Tetrachloro-m-xylene	0.259		mg/Kg wet	0.200		129	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.239		mg/Kg wet	0.200		120	30-150			

LCS Dup (B090593-BSD1)

Prepared & Analyzed: 02/19/14

Aroclor-1016	0.18	0.10	mg/Kg wet	0.200		92.5	40-140	23.9	30	
Aroclor-1016 [2C]	0.16	0.10	mg/Kg wet	0.200		77.8	40-140	25.6	30	
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		100	40-140	22.6	30	
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		107	40-140	23.1	30	
Surrogate: Decachlorobiphenyl	0.220		mg/Kg wet	0.200		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.172		mg/Kg wet	0.200		85.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.198		mg/Kg wet	0.200		98.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.183		mg/Kg wet	0.200		91.3	30-150			

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090649 - % Solids

Duplicate (B090649-DUP1)		Source: 14B0474-01		Prepared & Analyzed: 02/20/14						
% Solids	89.4		% Wt		89.2			0.224	20	
Duplicate (B090649-DUP2)		Source: 14B0474-11		Prepared & Analyzed: 02/20/14						
% Solids	86.2		% Wt		86.9			0.809	20	

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

CERTIFICATIONS

Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014



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ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@con-test-lab.com
www.con-test-lab.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 2

Company Name: WSP USA Corp
Address: 5 Sullivan St.
Cazenovia, NY 13035

Telephone: 315-665-3900
Project # E0032927000105

Attention: Dave Boufford

Client PO#
DATA DELIVERY (check all that apply)
☐ FAX ☐ EMAIL ☐ WEBSITE

Project Location: 5140 Commencement Bay, Yakutat, AK

Fax #
Email: Dave.Boufford@wspusa.com

Project Proposal Provided? (for billing purposes)
Yes ☒ No ☐ Proposal date 1/31/2014

Format
☐ PDF ☐ EXCEL ☐ OGIS
☐ OTHER

Con-Test Lab ID
(Laboratory use only)

Collection
Beginning Date/Time
Ending Date/Time
Composite
Grab
*Lab Use Only

Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	*Lab Use Only
-01 SLAB-35N-5E	2/16/14	1330		X	L
-02 SLAB-35N-15E		1335		X	L
-03 SLAB-35N-25E		1340		X	L
-04 SLAB-45N-5E		1345		X	L
-05 SLAB-45N-15E		1350		X	L
-06 SLAB-45N-25E		1355		X	L
-07 SLAB-45N-35E		1400		X	L
-08 SLAB-45N-45E		1405		X	L
-09 SLAB-55N-5E		1410		X	L
-10 SLAB-55N-15E		1415		X	L

Comments: New York to NYCAR-315-6.8(A)

RUSH

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Received by: (signature) [Signature]
Date/Time: 2/18/14 1600

Turnaround
☐ 7-Day
☐ 10-Day
☐ Other

Detection Limit Requirements
Massachusetts:

Is your project MCP or RCP?
☐ MCP Form Required
☐ RCP Form Required
☐ MA State DW Form Required PWSID #

Received by: (signature) [Signature]
Date/Time: 2/19/14 1010

Turnaround
☐ 7-Day
☐ 10-Day
☐ Other

Detection Limit Requirements
Massachusetts:

Is your project MCP or RCP?
☐ MCP Form Required
☐ RCP Form Required
☐ MA State DW Form Required PWSID #

Received by: (signature) [Signature]
Date/Time: 2/19/14 1010

Turnaround
☐ 7-Day
☐ 10-Day
☐ Other

Detection Limit Requirements
Massachusetts:

Is your project MCP or RCP?
☐ MCP Form Required
☐ RCP Form Required
☐ MA State DW Form Required PWSID #

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

# of Containers	** Preservation	*** Container Code	Dispersed Media
			☐ Field Filtered ☐ Lab to Filter

*** Cont. Codes:
A = amber glass
G = glass
P = plastic
ST = sterile
V = vial
S = summa can
T = Tedlar bag
O = Other

** Preservation
I = Ice
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

* Matrix Code:
GW = groundwater
WW = wastewater
DW = drinking water
A = air
S = soil/solid
SL = sludge
O = other



con-test
ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-4405
Email: info@con-test.com
www.con-test.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name: **WSP USA Corp**

Telephone: **315-655-3900**

Address: **5 Sullivan Street**

Project # **60032927000/05**

City: **Albany, NY 12035**

Client PO#

Attention: **Dave Bouchard**

DATA DELIVERY (check all that apply)
☐ FAX ☐ REMAIL ☐ OVERNIGHT

Project Location: **540 Quaker St., Jamaica, NY**

Format ☐ PDF ☐ EXCEL ☐ OGIS ☐ OTHER

Sampled By: **Kevin D. Sullivan**

Email: **Dave.Bouchard@wspusa.com**

Project Proposal Provided? (for billing purposes)
Yes ☒ No ☐ Proposal date: **4/30/2014**

Collection ☐ "Enhanced Data Package"

Con-Test Lab ID (Inventory use only)	Client Sample ID / Description	Collection		Enhanced Data Package*				S=Sunuma can T=tetradlar bag O=Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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-11	SLAB 55N-25E	2/10/14	1420		X	S	L	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							</

Comments: **New York City 375-6.6E**

Repetition limit 0.1mg/kg

RUSH

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Received by (signature) **[Signature]** Date/Time: **2/19/14 16:00**

Turnaround ☐ 7-Day ☐ 10-Day ☐ Other

Detection Limit Requirements

Is your project MCP or RCP?

Received by (signature) **[Signature]** Date/Time: **2/19/14 10:12**

Turnaround ☒ 24-Hr ☐ 48-Hr ☐ 72-Hr ☐ 14-Day

Connecticut

NEIAC & ALPHA-LAP, LLC
Accredited
WBE/DBE Certified

Received by (signature) **[Signature]** Date/Time: **2/19/14 10:12**

Turnaround ☒ 24-Hr ☐ 48-Hr ☐ 72-Hr ☐ 14-Day

Connecticut

NEIAC & ALPHA-LAP, LLC
Accredited
WBE/DBE Certified

IF TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT. PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

IMPORTANT!FedEx has returned to standard daily operations. [Learn More](#)**804786097060**

Ship (PLU) date:

Tues 2/18/2014 4:47 pm

CAZ US

**Delivered**

2/19/2014 10:12 AM

Actual delivery:

Wed 2/19/2014 10:12 am

MA US

Travel History

Date/Time	Activity	Location
2/19/2014 - Wednesday		
10:12 am	Delivered	MA
8:38 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:07 am	At local FedEx facility	WINDSOR LOCKS, CT
3:51 am	Departed FedEx location	NEWARK, NJ
2/18/2014 - Tuesday		
11:02 pm	Arrived at FedEx location	NEWARK, NJ
7:26 pm	Left FedEx origin facility	ORISKANY, NY
4:47 pm	Picked up	ORISKANY, NY

Local Scan Time

Shipment Facts

Tracking number	804786097060	Service	FedEx Priority Overnight
Delivered To	Shipping/Receiving	Shipper reference	E002917300 05
Packaging	Your Packaging	Special handling section	Deliver Weekday

39 Spruce St.
East Longmeadow, MA 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Page 1 of 2

Sample Receipt Checklist



CLIENT NAME: WSP RECEIVED BY: CEC DATE: 2/19/14

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples?

Yes No

If not, explain:

3) Are all the samples in good condition?

Yes No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.0°

5) Are there Dissolved samples for the lab to filter?

Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHDRT HOLDING TIME samples?

Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz <u>Amber</u> /clear jar	<u>13</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

10 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Doc# 277

Rev. 4 August 2013

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	NA	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Doc #277 Rev. 4 August 2013

Who notified of False statements?

Log-In Technician Initials:

CFC

Date/Time:

Date/Time:

2/19/14 10/2

March 14, 2014

Dave Bouchard
WSP
5 Sullivan Street
Cazenovia, NY 13035

Project Location: 5140 Commercial Dr., Yorkville, NY
Client Job Number:
Project Number: E0032927.000/05
Laboratory Work Order Number: 14B0475

Enclosed are results of analyses for samples received by the laboratory on February 19, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", is written over a horizontal line.

Aaron L. Benoit
Project Manager

WSP
5 Sullivan Street
Cazenovia, NY 13035
ATTN: Dave Bouchard

REPORT DATE: 3/14/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: E0032927.000/05

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14B0475

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

PROJECT LOCATION: 5140 Commercial Dr., Yorkville, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Berm 5N-5E	14B0475-01	Soil		SM 2540G SW-846 8082A	
Berm 5N-15E	14B0475-02	Soil		SM 2540G SW-846 8082A	
Berm 5N-25E	14B0475-03	Soil		SM 2540G SW-846 8082A	
Berm 5N-35E	14B0475-04	Soil		SM 2540G SW-846 8082A	
Berm 5N-45E	14B0475-05	Soil		SM 2540G SW-846 8082A	
Berm 5N-55E	14B0475-06	Soil		SM 2540G SW-846 8082A	
Berm 5N-65E	14B0475-07	Soil		SM 2540G SW-846 8082A	
Berm 5N-75E	14B0475-08	Soil		SM 2540G SW-846 8082A	
Berm 5N-85E	14B0475-09	Soil		SM 2540G SW-846 8082A	
Berm 5N-95E	14B0475-10	Soil		SM 2540G SW-846 8082A	
Berm 5N-105E	14B0475-11	Soil		SM 2540G SW-846 8082A	
Berm 5N-115E	14B0475-12	Soil		SM 2540G SW-846 8082A	
Berm 5N-125E	14B0475-13	Soil		SM 2540G SW-846 8082A	
Berm 5N-135E	14B0475-14	Soil		SM 2540G SW-846 8082A	
Berm 5N-145E	14B0475-15	Soil		SM 2540G SW-846 8082A	
Berm 10N-145E	14B0475-16	Soil		SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

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

REVISED REPORT 03/14/14: Report revised for an incorrect Field Sample ID. Sample ID for 14B0475-16 was changed to Berm 10N-145E as per COC.

SW-846 8082A**Qualifications:**

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Aroclor-1016, Aroclor-1016 [2C], Aroclor-1260, Aroclor-1260 [2C]

B090641-MS1, B090641-MSD1

Sample contains two incompletely resolved aroclors. Aroclor with the closest matching pattern is reported.

Analyte & Samples(s) Qualified:

Aroclor-1260, Aroclor-1260 [2C]

14B0475-01[Berm 5N-5E], 14B0475-02[Berm 5N-15E], 14B0475-04[Berm 5N-35E], 14B0475-10[Berm 5N-95E]

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

Analyte & Samples(s) Qualified:

Aroclor-1254 [2C]

14B0475-09[Berm 5N-85E]

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]

14B0475-03[Berm 5N-25E], 14B0475-04[Berm 5N-35E], 14B0475-06[Berm 5N-55E], 14B0475-08[Berm 5N-75E], 14B0475-12[Berm 5N-115E], 14B0475-13[Berm 5N-125E], 14B0475-14[Berm 5N-135E], 14B0475-15[Berm 5N-145E], 14B0475-16[Berm 10N-145E]

Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not affected.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl [2C]

B090641-MS1, B090641-MSD1

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

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

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", is written over a horizontal line.

Aaron L. Benoit
Project Chemist

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-5E

Sampled: 2/17/2014 14:00

Sample ID: 14B0475-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.26	0.082	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 20:09	MJC
Aroclor-1221 [1]	ND	0.26	0.26	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 20:09	MJC
Aroclor-1232 [1]	ND	0.26	0.16	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 20:09	MJC
Aroclor-1242 [1]	ND	0.26	0.13	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 20:09	MJC
Aroclor-1248 [1]	ND	0.26	0.15	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 20:09	MJC
Aroclor-1254 [1]	ND	0.26	0.11	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 20:09	MJC
Aroclor-1260 [2]	0.56	0.26	0.13	mg/Kg dry	10	O-03	SW-846 8082A	2/20/14	2/20/14 20:09	MJC
Aroclor-1262 [1]	ND	0.26	0.11	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 20:09	MJC
Aroclor-1268 [1]	ND	0.26	0.16	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 20:09	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	71.0		30-150				2/20/14 20:09			
Decachlorobiphenyl [2]	69.2		30-150				2/20/14 20:09			
Tetrachloro-m-xylene [1]	79.2		30-150				2/20/14 20:09			
Tetrachloro-m-xylene [2]	69.6		30-150				2/20/14 20:09			



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Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-5E

Sampled: 2/17/2014 14:00

Sample ID: 14B0475-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.3		% Wt	1		SM 2540G	2/20/14	2/21/14 8:01	MXG

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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-15E

Sampled: 2/17/2014 14:05

Sample ID: 14B0475-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.26	0.082	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 20:22	MJC
Aroclor-1221 [1]	ND	0.26	0.26	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 20:22	MJC
Aroclor-1232 [1]	ND	0.26	0.16	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 20:22	MJC
Aroclor-1242 [1]	ND	0.26	0.13	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 20:22	MJC
Aroclor-1248 [1]	ND	0.26	0.15	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 20:22	MJC
Aroclor-1254 [1]	ND	0.26	0.11	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 20:22	MJC
Aroclor-1260 [2]	1.6	0.26	0.13	mg/Kg dry	10	O-03	SW-846 8082A	2/20/14	2/20/14 20:22	MJC
Aroclor-1262 [1]	ND	0.26	0.11	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 20:22	MJC
Aroclor-1268 [1]	ND	0.26	0.16	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 20:22	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	99.8		30-150				2/20/14 20:22			
Decachlorobiphenyl [2]	95.2		30-150				2/20/14 20:22			
Tetrachloro-m-xylene [1]	95.8		30-150				2/20/14 20:22			
Tetrachloro-m-xylene [2]	84.5		30-150				2/20/14 20:22			



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-15E

Sampled: 2/17/2014 14:05

Sample ID: 14B0475-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	74.4		% Wt	1		SM 2540G	2/20/14	2/21/14 8:01	MXG

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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-25E

Sampled: 2/17/2014 14:10

Sample ID: 14B0475-03

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.2	0.67	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 8:50	MJC
Aroclor-1221 [1]	ND	2.2	2.1	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 8:50	MJC
Aroclor-1232 [1]	ND	2.2	1.3	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 8:50	MJC
Aroclor-1242 [1]	ND	2.2	1.1	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 8:50	MJC
Aroclor-1248 [1]	ND	2.2	1.3	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 8:50	MJC
Aroclor-1254 [1]	ND	2.2	0.93	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 8:50	MJC
Aroclor-1260 [2]	11	2.2	1.0	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 8:50	MJC
Aroclor-1262 [1]	ND	2.2	0.88	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 8:50	MJC
Aroclor-1268 [1]	ND	2.2	1.3	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 8:50	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	*		30-150		S-01					
Decachlorobiphenyl [2]	*		30-150		S-01					
Tetrachloro-m-xylene [1]	*		30-150		S-01					
Tetrachloro-m-xylene [2]	*		30-150		S-01					



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-25E

Sampled: 2/17/2014 14:10

Sample ID: 14B0475-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.8		% Wt	1		SM 2540G	2/20/14	2/21/14 8:01	MXG

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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-35E

Sampled: 2/17/2014 14:15

Sample ID: 14B0475-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.2	0.69	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 9:03	MJC
Aroclor-1221 [1]	ND	2.2	2.2	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 9:03	MJC
Aroclor-1232 [1]	ND	2.2	1.4	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 9:03	MJC
Aroclor-1242 [1]	ND	2.2	1.1	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 9:03	MJC
Aroclor-1248 [1]	ND	2.2	1.3	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 9:03	MJC
Aroclor-1254 [1]	ND	2.2	0.96	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 9:03	MJC
Aroclor-1260 [1]	20	2.2	1.1	mg/Kg dry	100	O-03	SW-846 8082A	2/20/14	2/21/14 9:03	MJC
Aroclor-1262 [1]	ND	2.2	0.92	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 9:03	MJC
Aroclor-1268 [1]	ND	2.2	1.3	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 9:03	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	*		30-150		S-01					
Decachlorobiphenyl [2]	*		30-150		S-01					
Tetrachloro-m-xylene [1]	*		30-150		S-01					
Tetrachloro-m-xylene [2]	*		30-150		S-01					



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-35E

Sampled: 2/17/2014 14:15

Sample ID: 14B0475-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.7		% Wt	1		SM 2540G	2/20/14	2/21/14 8:01	MXG

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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-45E

Sampled: 2/17/2014 14:20

Sample ID: 14B0475-05

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.43	0.13	mg/Kg dry	20		SW-846 8082A	2/20/14	2/21/14 9:16	MJC
Aroclor-1221 [1]	ND	0.43	0.42	mg/Kg dry	20		SW-846 8082A	2/20/14	2/21/14 9:16	MJC
Aroclor-1232 [1]	ND	0.43	0.26	mg/Kg dry	20		SW-846 8082A	2/20/14	2/21/14 9:16	MJC
Aroclor-1242 [1]	ND	0.43	0.22	mg/Kg dry	20		SW-846 8082A	2/20/14	2/21/14 9:16	MJC
Aroclor-1248 [1]	ND	0.43	0.25	mg/Kg dry	20		SW-846 8082A	2/20/14	2/21/14 9:16	MJC
Aroclor-1254 [1]	ND	0.43	0.18	mg/Kg dry	20		SW-846 8082A	2/20/14	2/21/14 9:16	MJC
Aroclor-1260 [2]	3.1	0.43	0.20	mg/Kg dry	20		SW-846 8082A	2/20/14	2/21/14 9:16	MJC
Aroclor-1262 [1]	ND	0.43	0.17	mg/Kg dry	20		SW-846 8082A	2/20/14	2/21/14 9:16	MJC
Aroclor-1268 [1]	ND	0.43	0.26	mg/Kg dry	20		SW-846 8082A	2/20/14	2/21/14 9:16	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	81.2		30-150						2/21/14 9:16	
Decachlorobiphenyl [2]	83.0		30-150						2/21/14 9:16	
Tetrachloro-m-xylene [1]	93.7		30-150						2/21/14 9:16	
Tetrachloro-m-xylene [2]	84.0		30-150						2/21/14 9:16	



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-45E

Sampled: 2/17/2014 14:20

Sample ID: 14B0475-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.8		% Wt	1		SM 2540G	2/20/14	2/21/14 8:01	MXG

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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-55E

Sampled: 2/17/2014 14:25

Sample ID: 14B0475-06

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	11	3.4	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 9:29	MJC
Aroclor-1221 [1]	ND	11	11	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 9:29	MJC
Aroclor-1232 [1]	ND	11	6.9	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 9:29	MJC
Aroclor-1242 [1]	ND	11	5.7	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 9:29	MJC
Aroclor-1248 [1]	ND	11	6.4	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 9:29	MJC
Aroclor-1254 [1]	ND	11	4.8	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 9:29	MJC
Aroclor-1260 [1]	42	11	5.3	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 9:29	MJC
Aroclor-1262 [1]	ND	11	4.6	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 9:29	MJC
Aroclor-1268 [1]	ND	11	6.7	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 9:29	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	*		30-150		S-01				2/21/14 9:29	
Decachlorobiphenyl [2]	*		30-150		S-01				2/21/14 9:29	
Tetrachloro-m-xylene [1]	*		30-150		S-01				2/21/14 9:29	
Tetrachloro-m-xylene [2]	*		30-150		S-01				2/21/14 9:29	



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-55E

Sampled: 2/17/2014 14:25

Sample ID: 14B0475-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.3		% Wt	1		SM 2540G	2/20/14	2/21/14 8:01	MXG

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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-65E

Sampled: 2/17/2014 14:30

Sample ID: 14B0475-07

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.23	0.070	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 21:26	MJC
Aroclor-1221 [1]	ND	0.23	0.22	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 21:26	MJC
Aroclor-1232 [1]	ND	0.23	0.14	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 21:26	MJC
Aroclor-1242 [1]	ND	0.23	0.12	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 21:26	MJC
Aroclor-1248 [1]	ND	0.23	0.13	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 21:26	MJC
Aroclor-1254 [2]	0.34	0.23	0.097	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 21:26	MJC
Aroclor-1260 [2]	0.70	0.23	0.11	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 21:26	MJC
Aroclor-1262 [1]	ND	0.23	0.093	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 21:26	MJC
Aroclor-1268 [1]	ND	0.23	0.14	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 21:26	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	79.0		30-150						2/20/14 21:26	
Decachlorobiphenyl [2]	82.8		30-150						2/20/14 21:26	
Tetrachloro-m-xylene [1]	98.9		30-150						2/20/14 21:26	
Tetrachloro-m-xylene [2]	87.2		30-150						2/20/14 21:26	



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-65E

Sampled: 2/17/2014 14:30

Sample ID: 14B0475-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.6		% Wt	1		SM 2540G	2/20/14	2/21/14 8:01	MXG

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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-75E

Sampled: 2/17/2014 14:35

Sample ID: 14B0475-08

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.2	0.37	mg/Kg dry	50		SW-846 8082A	2/20/14	2/21/14 9:42	MJC
Aroclor-1221 [1]	ND	1.2	1.2	mg/Kg dry	50		SW-846 8082A	2/20/14	2/21/14 9:42	MJC
Aroclor-1232 [1]	ND	1.2	0.74	mg/Kg dry	50		SW-846 8082A	2/20/14	2/21/14 9:42	MJC
Aroclor-1242 [1]	ND	1.2	0.61	mg/Kg dry	50		SW-846 8082A	2/20/14	2/21/14 9:42	MJC
Aroclor-1248 [1]	ND	1.2	0.70	mg/Kg dry	50		SW-846 8082A	2/20/14	2/21/14 9:42	MJC
Aroclor-1254 [1]	ND	1.2	0.52	mg/Kg dry	50		SW-846 8082A	2/20/14	2/21/14 9:42	MJC
Aroclor-1260 [1]	6.4	1.2	0.58	mg/Kg dry	50		SW-846 8082A	2/20/14	2/21/14 9:42	MJC
Aroclor-1262 [1]	ND	1.2	0.49	mg/Kg dry	50		SW-846 8082A	2/20/14	2/21/14 9:42	MJC
Aroclor-1268 [1]	ND	1.2	0.72	mg/Kg dry	50		SW-846 8082A	2/20/14	2/21/14 9:42	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	*		30-150		S-01				2/21/14 9:42	
Decachlorobiphenyl [2]	*		30-150		S-01				2/21/14 9:42	
Tetrachloro-m-xylene [1]	*		30-150		S-01				2/21/14 9:42	
Tetrachloro-m-xylene [2]	*		30-150		S-01				2/21/14 9:42	



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-75E

Sampled: 2/17/2014 14:35

Sample ID: 14B0475-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.4		% Wt	1		SM 2540G	2/20/14	2/21/14 8:01	MXG

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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-85E

Sampled: 2/17/2014 14:40

Sample ID: 14B0475-09

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.021	0.0065	mg/Kg dry	1		SW-846 8082A	2/20/14	2/21/14 9:55	MJC
Aroclor-1221 [1]	ND	0.021	0.021	mg/Kg dry	1		SW-846 8082A	2/20/14	2/21/14 9:55	MJC
Aroclor-1232 [1]	ND	0.021	0.013	mg/Kg dry	1		SW-846 8082A	2/20/14	2/21/14 9:55	MJC
Aroclor-1242 [1]	ND	0.021	0.011	mg/Kg dry	1		SW-846 8082A	2/20/14	2/21/14 9:55	MJC
Aroclor-1248 [1]	ND	0.021	0.012	mg/Kg dry	1		SW-846 8082A	2/20/14	2/21/14 9:55	MJC
Aroclor-1254 [2]	0.16	0.021	0.0090	mg/Kg dry	1	P-01	SW-846 8082A	2/20/14	2/21/14 9:55	MJC
Aroclor-1260 [2]	0.098	0.021	0.010	mg/Kg dry	1		SW-846 8082A	2/20/14	2/21/14 9:55	MJC
Aroclor-1262 [1]	ND	0.021	0.0086	mg/Kg dry	1		SW-846 8082A	2/20/14	2/21/14 9:55	MJC
Aroclor-1268 [1]	ND	0.021	0.013	mg/Kg dry	1		SW-846 8082A	2/20/14	2/21/14 9:55	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	90.1		30-150							
Decachlorobiphenyl [2]	99.2		30-150							
Tetrachloro-m-xylene [1]	94.9		30-150							
Tetrachloro-m-xylene [2]	90.7		30-150							



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-85E

Sampled: 2/17/2014 14:40

Sample ID: 14B0475-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.6		% Wt	1		SM 2540G	2/20/14	2/21/14 8:01	MXG

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-95E

Sampled: 2/17/2014 14:45

Sample ID: 14B0475-10

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.21	0.065	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 22:05	MJC
Aroclor-1221 [1]	ND	0.21	0.21	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 22:05	MJC
Aroclor-1232 [1]	ND	0.21	0.13	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 22:05	MJC
Aroclor-1242 [1]	ND	0.21	0.11	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 22:05	MJC
Aroclor-1248 [1]	ND	0.21	0.12	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 22:05	MJC
Aroclor-1254 [1]	ND	0.21	0.090	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 22:05	MJC
Aroclor-1260 [2]	0.37	0.21	0.10	mg/Kg dry	10	O-03	SW-846 8082A	2/20/14	2/20/14 22:05	MJC
Aroclor-1262 [1]	ND	0.21	0.086	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 22:05	MJC
Aroclor-1268 [1]	ND	0.21	0.13	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 22:05	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	77.5		30-150						2/20/14 22:05	
Decachlorobiphenyl [2]	83.7		30-150						2/20/14 22:05	
Tetrachloro-m-xylene [1]	96.8		30-150						2/20/14 22:05	
Tetrachloro-m-xylene [2]	86.6		30-150						2/20/14 22:05	



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-95E

Sampled: 2/17/2014 14:45

Sample ID: 14B0475-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.9		% Wt	1		SM 2540G	2/20/14	2/21/14 8:01	MXG

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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-105E

Sampled: 2/18/2014 08:30

Sample ID: 14B0475-11

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.27	0.084	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 22:18	MJC
Aroclor-1221 [1]	ND	0.27	0.26	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 22:18	MJC
Aroclor-1232 [1]	ND	0.27	0.17	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 22:18	MJC
Aroclor-1242 [1]	ND	0.27	0.14	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 22:18	MJC
Aroclor-1248 [1]	ND	0.27	0.16	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 22:18	MJC
Aroclor-1254 [1]	ND	0.27	0.12	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 22:18	MJC
Aroclor-1260 [1]	1.1	0.27	0.13	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 22:18	MJC
Aroclor-1262 [1]	ND	0.27	0.11	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 22:18	MJC
Aroclor-1268 [1]	ND	0.27	0.16	mg/Kg dry	10		SW-846 8082A	2/20/14	2/20/14 22:18	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	66.0		30-150				2/20/14 22:18			
Decachlorobiphenyl [2]	70.3		30-150				2/20/14 22:18			
Tetrachloro-m-xylene [1]	101		30-150				2/20/14 22:18			
Tetrachloro-m-xylene [2]	89.3		30-150				2/20/14 22:18			



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-105E

Sampled: 2/18/2014 08:30

Sample ID: 14B0475-11

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	74.1		% Wt	1		SM 2540G	2/20/14	2/21/14 8:01	MXG

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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-115E

Sampled: 2/18/2014 08:40

Sample ID: 14B0475-12

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	13	4.0	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 10:13	MJC
Aroclor-1221 [1]	ND	13	13	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 10:13	MJC
Aroclor-1232 [1]	ND	13	7.9	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 10:13	MJC
Aroclor-1242 [1]	ND	13	6.5	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 10:13	MJC
Aroclor-1248 [1]	ND	13	7.4	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 10:13	MJC
Aroclor-1254 [1]	ND	13	5.5	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 10:13	MJC
Aroclor-1260 [2]	43	13	6.1	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 10:13	MJC
Aroclor-1262 [1]	ND	13	5.2	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 10:13	MJC
Aroclor-1268 [1]	ND	13	7.7	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 10:13	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	*		30-150		S-01					
Decachlorobiphenyl [2]	*		30-150		S-01					
Tetrachloro-m-xylene [1]	*		30-150		S-01					
Tetrachloro-m-xylene [2]	*		30-150		S-01					



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-115E

Sampled: 2/18/2014 08:40

Sample ID: 14B0475-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.8		% Wt	1		SM 2540G	2/20/14	2/21/14 8:01	MXG

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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-125E

Sampled: 2/18/2014 08:50

Sample ID: 14B0475-13

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	14	4.2	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 10:26	MJC
Aroclor-1221 [1]	ND	14	13	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 10:26	MJC
Aroclor-1232 [1]	ND	14	8.5	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 10:26	MJC
Aroclor-1242 [1]	ND	14	7.0	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 10:26	MJC
Aroclor-1248 [2]	16	14	7.9	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 10:26	MJC
Aroclor-1254 [1]	ND	14	5.9	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 10:26	MJC
Aroclor-1260 [2]	85	14	6.6	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 10:26	MJC
Aroclor-1262 [1]	ND	14	5.6	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 10:26	MJC
Aroclor-1268 [1]	ND	14	8.2	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 10:26	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	*		30-150		S-01					
Decachlorobiphenyl [2]	*		30-150		S-01					
Tetrachloro-m-xylene [1]	*		30-150		S-01					
Tetrachloro-m-xylene [2]	*		30-150		S-01					



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-125E

Sampled: 2/18/2014 08:50

Sample ID: 14B0475-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	73.2		% Wt	1		SM 2540G	2/20/14	2/21/14 8:01	MXG

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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-135E

Sampled: 2/18/2014 09:00

Sample ID: 14B0475-14

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	25	7.8	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 10:39	MJC
Aroclor-1221 [1]	ND	25	25	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 10:39	MJC
Aroclor-1232 [1]	ND	25	16	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 10:39	MJC
Aroclor-1242 [1]	ND	25	13	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 10:39	MJC
Aroclor-1248 [2]	16	25	15	mg/Kg dry	1000	J	SW-846 8082A	2/20/14	2/21/14 10:39	MJC
Aroclor-1254 [1]	ND	25	11	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 10:39	MJC
Aroclor-1260 [2]	130	25	12	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 10:39	MJC
Aroclor-1262 [1]	ND	25	10	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 10:39	MJC
Aroclor-1268 [1]	ND	25	15	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 10:39	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	*		30-150		S-01		2/21/14 10:39			
Decachlorobiphenyl [2]	*		30-150		S-01		2/21/14 10:39			
Tetrachloro-m-xylene [1]	*		30-150		S-01		2/21/14 10:39			
Tetrachloro-m-xylene [2]	*		30-150		S-01		2/21/14 10:39			



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-135E

Sampled: 2/18/2014 09:00

Sample ID: 14B0475-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.8		% Wt	1		SM 2540G	2/20/14	2/21/14 8:01	MXG

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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-145E

Sampled: 2/18/2014 11:05

Sample ID: 14B0475-15

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	26	7.9	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 10:52	MJC
Aroclor-1221 [1]	ND	26	25	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 10:52	MJC
Aroclor-1232 [1]	ND	26	16	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 10:52	MJC
Aroclor-1242 [1]	ND	26	13	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 10:52	MJC
Aroclor-1248 [2]	32	26	15	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 10:52	MJC
Aroclor-1254 [1]	ND	26	11	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 10:52	MJC
Aroclor-1260 [2]	180	26	12	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 10:52	MJC
Aroclor-1262 [1]	ND	26	10	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 10:52	MJC
Aroclor-1268 [1]	ND	26	15	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 10:52	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	*		30-150		S-01					
Decachlorobiphenyl [2]	*		30-150		S-01					
Tetrachloro-m-xylene [1]	*		30-150		S-01					
Tetrachloro-m-xylene [2]	*		30-150		S-01					



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 5N-145E

Sampled: 2/18/2014 11:05

Sample ID: 14B0475-15

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.6		% Wt	1		SM 2540G	2/20/14	2/21/14 8:01	MXG

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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 10N-145E

Sampled: 2/18/2014 14:05

Sample ID: 14B0475-16

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	25	7.9	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 11:05	MJC
Aroclor-1221 [1]	ND	25	25	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 11:05	MJC
Aroclor-1232 [1]	ND	25	16	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 11:05	MJC
Aroclor-1242 [1]	ND	25	13	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 11:05	MJC
Aroclor-1248 [2]	21	25	15	mg/Kg dry	1000	J	SW-846 8082A	2/20/14	2/21/14 11:05	MJC
Aroclor-1254 [1]	ND	25	11	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 11:05	MJC
Aroclor-1260 [2]	110	25	12	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 11:05	MJC
Aroclor-1262 [1]	ND	25	10	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 11:05	MJC
Aroclor-1268 [1]	ND	25	15	mg/Kg dry	1000		SW-846 8082A	2/20/14	2/21/14 11:05	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	*		30-150		S-01		2/21/14 11:05			
Decachlorobiphenyl [2]	*		30-150		S-01		2/21/14 11:05			
Tetrachloro-m-xylene [1]	*		30-150		S-01		2/21/14 11:05			
Tetrachloro-m-xylene [2]	*		30-150		S-01		2/21/14 11:05			



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0475

Date Received: 2/19/2014

Field Sample #: Berm 10N-145E

Sampled: 2/18/2014 14:05

Sample ID: 14B0475-16

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.6		% Wt	1		SM 2540G	2/20/14	2/21/14 8:01	MXG

Sample Extraction Data**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
14B0475-01 [Berm 5N-5E]	B090642	02/20/14
14B0475-02 [Berm 5N-15E]	B090642	02/20/14
14B0475-03 [Berm 5N-25E]	B090642	02/20/14
14B0475-04 [Berm 5N-35E]	B090642	02/20/14
14B0475-05 [Berm 5N-45E]	B090642	02/20/14
14B0475-06 [Berm 5N-55E]	B090642	02/20/14
14B0475-07 [Berm 5N-65E]	B090642	02/20/14
14B0475-08 [Berm 5N-75E]	B090642	02/20/14
14B0475-09 [Berm 5N-85E]	B090642	02/20/14
14B0475-10 [Berm 5N-95E]	B090642	02/20/14
14B0475-11 [Berm 5N-105E]	B090642	02/20/14
14B0475-12 [Berm 5N-115E]	B090642	02/20/14
14B0475-13 [Berm 5N-125E]	B090642	02/20/14
14B0475-14 [Berm 5N-135E]	B090642	02/20/14
14B0475-15 [Berm 5N-145E]	B090642	02/20/14
14B0475-16 [Berm 10N-145E]	B090642	02/20/14

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14B0475-01 [Berm 5N-5E]	B090641	10.1	10.0	02/20/14
14B0475-02 [Berm 5N-15E]	B090641	10.2	10.0	02/20/14
14B0475-03 [Berm 5N-25E]	B090641	10.1	10.0	02/20/14
14B0475-04 [Berm 5N-35E]	B090641	10.1	10.0	02/20/14
14B0475-05 [Berm 5N-45E]	B090641	10.1	10.0	02/20/14
14B0475-06 [Berm 5N-55E]	B090641	10.2	10.0	02/20/14
14B0475-07 [Berm 5N-65E]	B090641	10.1	10.0	02/20/14
14B0475-08 [Berm 5N-75E]	B090641	10.1	10.0	02/20/14
14B0475-09 [Berm 5N-85E]	B090641	10.2	10.0	02/20/14
14B0475-10 [Berm 5N-95E]	B090641	10.4	10.0	02/20/14
14B0475-11 [Berm 5N-105E]	B090641	10.0	10.0	02/20/14
14B0475-12 [Berm 5N-115E]	B090641	10.2	10.0	02/20/14
14B0475-13 [Berm 5N-125E]	B090641	10.0	10.0	02/20/14
14B0475-14 [Berm 5N-135E]	B090641	10.3	10.0	02/20/14
14B0475-15 [Berm 5N-145E]	B090641	10.1	10.0	02/20/14
14B0475-16 [Berm 10N-145E]	B090641	10.0	10.0	02/20/14

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090641 - SW-846 3546
Blank (B090641-BLK1)

Prepared & Analyzed: 02/20/14

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.197		mg/Kg wet	0.200		98.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.195		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.212		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.193		mg/Kg wet	0.200		96.6	30-150			

LCS (B090641-BS1)

Prepared & Analyzed: 02/20/14

Aroclor-1016	0.19	0.10	mg/Kg wet	0.200		94.2	40-140			
Aroclor-1016 [2C]	0.18	0.10	mg/Kg wet	0.200		91.7	40-140			
Aroclor-1260	0.18	0.10	mg/Kg wet	0.200		88.0	40-140			
Aroclor-1260 [2C]	0.18	0.10	mg/Kg wet	0.200		88.3	40-140			
Surrogate: Decachlorobiphenyl	0.173		mg/Kg wet	0.200		86.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.166		mg/Kg wet	0.200		83.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.184		mg/Kg wet	0.200		92.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.161		mg/Kg wet	0.200		80.6	30-150			

LCS Dup (B090641-BSD1)

Prepared & Analyzed: 02/20/14

Aroclor-1016	0.18	0.10	mg/Kg wet	0.200		87.7	40-140	7.13	30	
Aroclor-1016 [2C]	0.18	0.10	mg/Kg wet	0.200		87.6	40-140	4.58	30	
Aroclor-1260	0.17	0.10	mg/Kg wet	0.200		83.8	40-140	4.84	30	
Aroclor-1260 [2C]	0.16	0.10	mg/Kg wet	0.200		82.0	40-140	7.40	30	
Surrogate: Decachlorobiphenyl	0.152		mg/Kg wet	0.200		76.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.148		mg/Kg wet	0.200		74.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.164		mg/Kg wet	0.200		81.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.142		mg/Kg wet	0.200		71.2	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B090641 - SW-846 3546										
Matrix Spike (B090641-MS1)	Source: 14B0475-16			Prepared: 02/20/14 Analyzed: 02/21/14						
Aroclor-1016	5.6	0.13	mg/Kg dry	0.254	ND	2190	* 40-140			MS-19
Aroclor-1016 [2C]	5.4	0.13	mg/Kg dry	0.254	ND	2120	* 40-140			MS-19
Aroclor-1260	78	0.13	mg/Kg dry	0.254	100	-9180	* 40-140			MS-19
Aroclor-1260 [2C]	110	0.13	mg/Kg dry	0.254	110	-2500	* 40-140			MS-19
Surrogate: Decachlorobiphenyl	0.209		mg/Kg dry	0.254		82.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.674		mg/Kg dry	0.254		265	* 30-150			S-12
Surrogate: Tetrachloro-m-xylene	0.237		mg/Kg dry	0.254		93.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.211		mg/Kg dry	0.254		83.0	30-150			
Matrix Spike Dup (B090641-MSD1)	Source: 14B0475-16			Prepared: 02/20/14 Analyzed: 02/21/14						
Aroclor-1016	6.0	0.13	mg/Kg dry	0.254	ND	2370	* 40-140		30	MS-19
Aroclor-1016 [2C]	5.3	0.13	mg/Kg dry	0.254	ND	2090	* 40-140		30	MS-19
Aroclor-1260	66	0.13	mg/Kg dry	0.254	100	-13800	* 40-140	16.3	30	MS-19
Aroclor-1260 [2C]	89	0.13	mg/Kg dry	0.254	110	-9910	* 40-140	19.1	30	MS-19
Surrogate: Decachlorobiphenyl	0.200		mg/Kg dry	0.254		78.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.562		mg/Kg dry	0.254		221	* 30-150			S-12
Surrogate: Tetrachloro-m-xylene	0.230		mg/Kg dry	0.254		90.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.205		mg/Kg dry	0.254		80.6	30-150			

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090642 - % Solids

Duplicate (B090642-DUP1)

Source: 14B0475-06

Prepared: 02/20/14 Analyzed: 02/21/14

% Solids	86.9		% Wt		88.3			1.60	20	

Duplicate (B090642-DUP2)

Source: 14B0475-07

Prepared: 02/20/14 Analyzed: 02/21/14

% Solids	83.2		% Wt		87.6			5.15	20	

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
O-03	Sample contains two incompletely resolved aroclors. Aroclor with the closest matching pattern is reported.
P-01	Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
S-12	Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not affected.

CERTIFICATIONS

Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014



con-test
ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-4405
Email: info@con-test.com
www.con-test.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 2

Company Name: **WSP USA Corp.**

Telephone: **413-525-3500**

Address: **5 Sullivan Street**

Project # **60032927.000/05**

City/State/Zip: **Chenoweth, NY 13035**

Client PO#

Attention: **DAVE BOUGHARD**

DATA DELIVERY (check all that apply)
☐ FAX ☒ EMAIL ☐ CD/DVD

Project Location: **540 Commercial Dr, Westville, NY.**

Format ☒ RPT ☐ EXCEL ☐ GIS

Sampled By: **Kevin Sullivan**

Email: **Dave.Boughard@wsp.com**

Project Proposal Provided? (for billing purposes)
Yes ☒ No ☐ Proposal date **MSA**

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Beam SN-SE

2/17/14 1400

X

X

Beam SN-1SE

1405

X

X

Beam SN-2SE

1410

X

X

Beam SN-3SE

1415

X

X

Beam SN-4SE

1420

X

X

Beam SN-5SE

1425

X

X

Beam SN-6SE

1430

X

X

Beam SN-7SE

1435

X

X

Beam SN-8SE

1440

X

X

Beam SN-9SE

1445

X

X

Comments: **New York Calyx 375-6-8 (A)**

Baseline limit = 0.1mg/kg

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

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

Received by: (signature) **[Signature]**

Date/Time: **2/19/14 1600**

Turnaround ☒ 7-Day ☐ 10-Day ☐ Other

Massachusetts: **[Signature]**

Received by: (signature) **[Signature]**

Date/Time: **2/19/14 1012**

Turnaround ☐ 7-Day ☐ 10-Day ☐ Other

Massachusetts: **[Signature]**

Received by: (signature) **[Signature]**

Date/Time: **2/19/14 1012**

Turnaround ☐ 7-Day ☐ 10-Day ☐ Other

Massachusetts: **[Signature]**

Received by: (signature) **[Signature]**

Date/Time: **2/19/14 1012**

Turnaround ☐ 7-Day ☐ 10-Day ☐ Other

Massachusetts: **[Signature]**

Received by: (signature) **[Signature]**

Date/Time: **2/19/14 1012**

Turnaround ☐ 7-Day ☐ 10-Day ☐ Other

Massachusetts: **[Signature]**

Received by: (signature) **[Signature]**

Date/Time: **2/19/14 1012**

Turnaround ☐ 7-Day ☐ 10-Day ☐ Other

Massachusetts: **[Signature]**

Received by: (signature) **[Signature]**

Date/Time: **2/19/14 1012**

Turnaround ☐ 7-Day ☐ 10-Day ☐ Other

Massachusetts: **[Signature]**

IF TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO COMPLICATE THIS DOCUMENT

IMPORTANT!

FedEx has returned to standard daily operations. [Learn More](#)



804786097060

Shipping date

Tues 2/18/2014 4:47 pm

CA, US



Delivered

Delivered by 10:12 AM

Actual delivery

Wed 2/19/2014 10:12 am

MA, US

Travel History

Date/Time	Activity	Location
2/19/2014 - Wednesday		
10:12 am	Delivered	MA
8:38 am	On FedEx vehicle for delivery	WILMINGTON, CT
7:57 am	At local FedEx facility	WILMINGTON, CT
3:51 am	Departed FedEx location	NEWARK, NJ
2/18/2014 - Tuesday		
11:02 pm	Arrived at FedEx location	NEWARK, NJ
7:25 pm	Left FedEx origin facility	ORISKANY, NY
4:47 pm	Picked up	ORISKANY, NY

Local Scan Time

Shipment Facts

Tracking number	804786097060	Service	FedEx Priority Overnight
Delivered To	Shipping/Receiving	Shipper reference	E003291700005
Packaging	Your Packaging	Special handling section	Deliver Weekday

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Page 1 of 2

Sample Receipt Checklist

CLIENT NAME: WSP RECEIVED BY: CEC DATE: 2/19/14

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.0

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No

(Walk-in clients only) if not already approved

Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers			# of containers
1 Liter Amber			8 oz <u>amber</u> clear jar	<u>16</u>
500 mL Amber			4 oz amber/clear jar	
250 mL Amber (8oz amber)			2 oz amber/clear jar	
1 Liter Plastic			Plastic Bag / Ziploc	
500 mL Plastic			SOC Kit	
250 mL plastic			Non-ConTest Container	
40 mL Vial - type listed below			Perchlorate Kit	
Colisure / bacteria bottle			Flashpoint bottle	
Dissolved Oxygen bottle			Other glass jar	
Encore			Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Doc# 277: # Bisulfate _____ # DI Water _____

Rev. 4 August 2013 # Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	NA	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements?

Date/Time:

Doc #277 Rev. 4 August 2013

Log-In Technician Initials:

Date/Time:

CEC

2/19/14

10/1

February 24, 2014

Dave Bouchard
WSP
5 Sullivan Street
Cazenovia, NY 13035

Project Location: 5140 Commercial Dr, Yorville, NY
Client Job Number:
Project Number: EOO32927.000/05
Laboratory Work Order Number: 14B0517

Enclosed are results of analyses for samples received by the laboratory on February 20, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", followed by a horizontal line.

Aaron L. Benoit
Project Manager



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

WSP
5 Sullivan Street
Cazenovia, NY 13035
ATTN: Dave Bouchard

REPORT DATE: 2/24/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: EOO32927.000/05

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14B0517

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

PROJECT LOCATION: 5140 Commercial Dr, Yorville, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
N. Footer Conc.	14B0517-01	Soil		SM 2540G SW-846 1030 SW-846 1311 SW-846 6010C SW-846 7470A SW-846 8081B SW-846 8082A SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9045C	
Berm 5N-155E	14B0517-02	Soil		SM 2540G SW-846 8082A	
Berm 5N-165E	14B0517-03	Soil		SM 2540G SW-846 8082A	
Berm 5N-175E	14B0517-04	Soil		SM 2540G SW-846 8082A	
Berm 5N-185E	14B0517-05	Soil		SM 2540G SW-846 8082A	
Berm 5N-195E	14B0517-06	Soil		SM 2540G SW-846 8082A	
Berm 5N-205E	14B0517-07	Soil		SM 2540G SW-846 8082A	
Berm 10N-205E	14B0517-08	Soil		SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

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

SW-846 8082A**Qualifications:**

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

Analyte & Samples(s) Qualified:

Aroclor-1016, Aroclor-1016 [2C], Aroclor-1260, Aroclor-1260 [2C]

B090653-MS1, B090653-MSD1

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]

14B0517-02[Berm 5N-155E], 14B0517-03[Berm 5N-165E], 14B0517-05[Berm 5N-185E], 14B0517-06[Berm 5N-195E]

SW-846 8151A**Qualifications:**

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

2,4,5-TP (Silvex), 2,4,5-TP (Silvex) [2C], 2,4-D

B090683-BS1, B090683-MS1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2,4,5-TP (Silvex), 2,4,5-TP (Silvex) [2C]

14B0517-01[N. Footer Conc.]

SW-846 8260C**Qualifications:**

Matrix spike recovery is outside of control limits. Data validation is not affected since sample result is "not detected" and recovery bias is on the high side for this compound.

Analyte & Samples(s) Qualified:

1,1-Dichloroethylene, Trichloroethylene

B090687-MS1

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

2-Butanone (MEK)

14B0517-01[N. Footer Conc.], B090687-BLK1, B090687-BS1, B090687-BSD1, B090687-MS1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2-Butanone (MEK)

B090687-BS1, B090687-BSD1, B090687-MS1

SW-846 8270D**Qualifications:**

One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol

14B0517-01[N. Footer Conc.], B090691-MS1

SW-846 9045C

Qualifications:

Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.

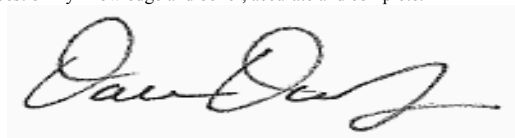
Analyte & Samples(s) Qualified:

pH

14B0517-01[N. Footer Conc.]

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

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



Daren J. Damboragian
Laboratory Manager

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

Project Location: 5140 Commercial Dr, Yorville, N

Sample Description:

Work Order: 14B0517

Date Received: 2/20/2014

Field Sample #: N. Footer Conc.

Sampled: 2/19/2014 14:00

Sample ID: 14B0517-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	0.033	mg/Kg dry	5		SW-846 8082A	2/20/14	2/20/14 23:44	PJG
Aroclor-1221 [1]	ND	0.11	0.11	mg/Kg dry	5		SW-846 8082A	2/20/14	2/20/14 23:44	PJG
Aroclor-1232 [1]	ND	0.11	0.066	mg/Kg dry	5		SW-846 8082A	2/20/14	2/20/14 23:44	PJG
Aroclor-1242 [1]	ND	0.11	0.055	mg/Kg dry	5		SW-846 8082A	2/20/14	2/20/14 23:44	PJG
Aroclor-1248 [1]	ND	0.11	0.062	mg/Kg dry	5		SW-846 8082A	2/20/14	2/20/14 23:44	PJG
Aroclor-1254 [1]	ND	0.11	0.046	mg/Kg dry	5		SW-846 8082A	2/20/14	2/20/14 23:44	PJG
Aroclor-1260 [2]	0.45	0.11	0.051	mg/Kg dry	5		SW-846 8082A	2/20/14	2/20/14 23:44	PJG
Aroclor-1262 [1]	ND	0.11	0.044	mg/Kg dry	5		SW-846 8082A	2/20/14	2/20/14 23:44	PJG
Aroclor-1268 [1]	ND	0.11	0.064	mg/Kg dry	5		SW-846 8082A	2/20/14	2/20/14 23:44	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	79.5		30-150				2/20/14 23:44			
Decachlorobiphenyl [2]	79.7		30-150				2/20/14 23:44			
Tetrachloro-m-xylene [1]	74.5		30-150				2/20/14 23:44			
Tetrachloro-m-xylene [2]	82.3		30-150				2/20/14 23:44			



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

Project Location: 5140 Commercial Dr, Yorville, N

Sample Description:

Work Order: 14B0517

Date Received: 2/20/2014

Field Sample #: N. Footer Conc.

Sampled: 2/19/2014 14:00

Sample ID: 14B0517-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @20.6°C	12		pH Units	1	H-01	SW-846 9045C	2/21/14	2/21/14 8:45	LL
% Solids	90.6		% Wt	1		SM 2540G	2/20/14	2/24/14 15:04	WAL

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

Project Location: 5140 Commercial Dr, Yorville, N

Sample Description:

Work Order: 14B0517

Date Received: 2/20/2014

Field Sample #: N. Footer Conc.

Sampled: 2/19/2014 14:00

Sample ID: 14B0517-01

Sample Matrix: Soil

TCLP - Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0010	mg/L	0.1		SW-846 8260C	2/21/14	2/21/14 11:13	EEH
2-Butanone (MEK)	ND	0.020	mg/L	0.1	R-05	SW-846 8260C	2/21/14	2/21/14 11:13	EEH
Carbon Tetrachloride	ND	0.0050	mg/L	0.1		SW-846 8260C	2/21/14	2/21/14 11:13	EEH
Chlorobenzene	ND	0.0010	mg/L	0.1		SW-846 8260C	2/21/14	2/21/14 11:13	EEH
Chloroform	ND	0.0020	mg/L	0.1		SW-846 8260C	2/21/14	2/21/14 11:13	EEH
1,4-Dichlorobenzene	ND	0.0010	mg/L	0.1		SW-846 8260C	2/21/14	2/21/14 11:13	EEH
1,2-Dichloroethane	ND	0.0010	mg/L	0.1		SW-846 8260C	2/21/14	2/21/14 11:13	EEH
1,1-Dichloroethylene	ND	0.0010	mg/L	0.1		SW-846 8260C	2/21/14	2/21/14 11:13	EEH
Tetrachloroethylene	ND	0.0010	mg/L	0.1		SW-846 8260C	2/21/14	2/21/14 11:13	EEH
Trichloroethylene	ND	0.0010	mg/L	0.1		SW-846 8260C	2/21/14	2/21/14 11:13	EEH
Vinyl Chloride	ND	0.0020	mg/L	0.1		SW-846 8260C	2/21/14	2/21/14 11:13	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4	83.5		70-130				2/21/14 11:13		
Toluene-d8	122		70-130				2/21/14 11:13		
4-Bromofluorobenzene	117		70-130				2/21/14 11:13		

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

Project Location: 5140 Commercial Dr, Yorville, N

Sample Description:

Work Order: 14B0517

Date Received: 2/20/2014

Field Sample #: N. Footer Conc.

Sampled: 2/19/2014 14:00

Sample ID: 14B0517-01

Sample Matrix: Soil

TCLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-Dinitrotoluene	ND	0.050	mg/L	1		SW-846 8270D	2/21/14	2/21/14 23:21	CMR
Hexachlorobenzene	ND	0.050	mg/L	1		SW-846 8270D	2/21/14	2/21/14 23:21	CMR
Hexachlorobutadiene	ND	0.050	mg/L	1		SW-846 8270D	2/21/14	2/21/14 23:21	CMR
Hexachloroethane	ND	0.050	mg/L	1		SW-846 8270D	2/21/14	2/21/14 23:21	CMR
2-Methylphenol	ND	0.050	mg/L	1		SW-846 8270D	2/21/14	2/21/14 23:21	CMR
3/4-Methylphenol	ND	0.050	mg/L	1		SW-846 8270D	2/21/14	2/21/14 23:21	CMR
Nitrobenzene	ND	0.050	mg/L	1		SW-846 8270D	2/21/14	2/21/14 23:21	CMR
Pentachlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/21/14	2/21/14 23:21	CMR
Pyridine	ND	0.025	mg/L	1		SW-846 8270D	2/21/14	2/21/14 23:21	CMR
2,4,5-Trichlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/21/14	2/21/14 23:21	CMR
2,4,6-Trichlorophenol	ND	0.050	mg/L	1		SW-846 8270D	2/21/14	2/21/14 23:21	CMR
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorophenol	60.8		15-110				2/21/14 23:21		
Phenol-d6	66.7		15-110				2/21/14 23:21		
Nitrobenzene-d5	68.0		30-130				2/21/14 23:21		
2-Fluorobiphenyl	60.7		30-130				2/21/14 23:21		
2,4,6-Tribromophenol	126 *		15-110		S-07		2/21/14 23:21		
p-Terphenyl-d14	91.5		30-130				2/21/14 23:21		

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

Project Location: 5140 Commercial Dr, Yorville, N

Sample Description:

Work Order: 14B0517

Date Received: 2/20/2014

Field Sample #: N. Footer Conc.

Sampled: 2/19/2014 14:00

Sample ID: 14B0517-01

Sample Matrix: Soil

TCLP - Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
gamma-BHC (Lindane) [1]	ND	0.030	µg/L	1		SW-846 8081B	2/21/14	2/21/14 19:12	PJG
Chlordane [1]	ND	0.20	µg/L	1		SW-846 8081B	2/21/14	2/21/14 19:12	PJG
Endrin [1]	ND	0.080	µg/L	1		SW-846 8081B	2/21/14	2/21/14 19:12	PJG
Heptachlor [1]	ND	0.050	µg/L	1		SW-846 8081B	2/21/14	2/21/14 19:12	PJG
Heptachlor epoxide [1]	ND	0.050	µg/L	1		SW-846 8081B	2/21/14	2/21/14 19:12	PJG
Methoxychlor [1]	ND	0.50	µg/L	1		SW-846 8081B	2/21/14	2/21/14 19:12	PJG
Toxaphene [1]	ND	1.0	µg/L	1		SW-846 8081B	2/21/14	2/21/14 19:12	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	52.2	30-150							
Decachlorobiphenyl [2]	47.2	30-150							
Tetrachloro-m-xylene [1]	72.0	30-150							
Tetrachloro-m-xylene [2]	64.6	30-150							

Project Location: 5140 Commercial Dr, Yorville, N

Sample Description:

Work Order: 14B0517

Date Received: 2/20/2014

Field Sample #: N. Footer Conc.

Sampled: 2/19/2014 14:00

Sample ID: 14B0517-01

Sample Matrix: Soil

TCLP - Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	0.050	mg/L	1		SW-846 8151A	2/21/14	2/22/14 10:53	PJG
2,4,5-TP (Silvex) [1]	ND	0.0050	mg/L	1	V-20	SW-846 8151A	2/21/14	2/22/14 10:53	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	79.5		30-150				2/22/14 10:53		
2,4-Dichlorophenylacetic acid [2]	71.9		30-150				2/22/14 10:53		

Project Location: 5140 Commercial Dr, Yorville, N

Sample Description:

Work Order: 14B0517

Date Received: 2/20/2014

Field Sample #: N. Footer Conc.

Sampled: 2/19/2014 14:00

Sample ID: 14B0517-01

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.010	mg/L	1		SW-846 6010C	2/21/14	2/21/14 13:16	OP
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	2/21/14	2/21/14 13:31	AMP
Barium	0.46	0.050	mg/L	1		SW-846 6010C	2/21/14	2/21/14 13:16	OP
Cadmium	ND	0.0040	mg/L	1		SW-846 6010C	2/21/14	2/21/14 13:16	OP
Chromium	ND	0.010	mg/L	1		SW-846 6010C	2/21/14	2/21/14 13:16	OP
Lead	0.046	0.010	mg/L	1		SW-846 6010C	2/21/14	2/21/14 13:16	OP
Selenium	ND	0.050	mg/L	1		SW-846 6010C	2/21/14	2/21/14 13:16	OP
Silver	0.019	0.0050	mg/L	1		SW-846 6010C	2/21/14	2/21/14 13:16	OP



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

Project Location: 5140 Commercial Dr, Yorville, N

Sample Description:

Work Order: 14B0517

Date Received: 2/20/2014

Field Sample #: N. Footer Conc.

Sampled: 2/19/2014 14:00

Sample ID: 14B0517-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Attached		present/absent	1		SW-846 1030		2/24/14 0:00	PAL

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

Project Location: 5140 Commercial Dr, Yorville, N

Sample Description:

Work Order: 14B0517

Date Received: 2/20/2014

Field Sample #: Berm 5N-155E

Sampled: 2/19/2014 14:40

Sample ID: 14B0517-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	5.3	1.6	mg/Kg dry	200		SW-846 8082A	2/20/14	2/21/14 16:02	MJC
Aroclor-1221 [1]	ND	5.3	5.2	mg/Kg dry	200		SW-846 8082A	2/20/14	2/21/14 16:02	MJC
Aroclor-1232 [1]	ND	5.3	3.3	mg/Kg dry	200		SW-846 8082A	2/20/14	2/21/14 16:02	MJC
Aroclor-1242 [1]	ND	5.3	2.7	mg/Kg dry	200		SW-846 8082A	2/20/14	2/21/14 16:02	MJC
Aroclor-1248 [1]	ND	5.3	3.1	mg/Kg dry	200		SW-846 8082A	2/20/14	2/21/14 16:02	MJC
Aroclor-1254 [1]	9.1	5.3	2.3	mg/Kg dry	200		SW-846 8082A	2/20/14	2/21/14 16:02	MJC
Aroclor-1260 [1]	26	5.3	2.5	mg/Kg dry	200		SW-846 8082A	2/20/14	2/21/14 16:02	MJC
Aroclor-1262 [1]	ND	5.3	2.2	mg/Kg dry	200		SW-846 8082A	2/20/14	2/21/14 16:02	MJC
Aroclor-1268 [1]	ND	5.3	3.2	mg/Kg dry	200		SW-846 8082A	2/20/14	2/21/14 16:02	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	*		30-150		S-01					
Decachlorobiphenyl [2]	*		30-150		S-01					
Tetrachloro-m-xylene [1]	*		30-150		S-01					
Tetrachloro-m-xylene [2]	*		30-150		S-01					



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

Project Location: 5140 Commercial Dr, Yorville, N

Sample Description:

Work Order: 14B0517

Date Received: 2/20/2014

Field Sample #: Berm 5N-155E

Sampled: 2/19/2014 14:40

Sample ID: 14B0517-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.3		% Wt	1		SM 2540G	2/20/14	2/24/14 15:04	WAL

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

Project Location: 5140 Commercial Dr, Yorville, N

Sample Description:

Work Order: 14B0517

Date Received: 2/20/2014

Field Sample #: Berm 5N-165E

Sampled: 2/19/2014 14:45

Sample ID: 14B0517-03

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.3	0.40	mg/Kg dry	50		SW-846 8082A	2/20/14	2/21/14 16:14	MJC
Aroclor-1221 [1]	ND	1.3	1.3	mg/Kg dry	50		SW-846 8082A	2/20/14	2/21/14 16:14	MJC
Aroclor-1232 [1]	ND	1.3	0.80	mg/Kg dry	50		SW-846 8082A	2/20/14	2/21/14 16:14	MJC
Aroclor-1242 [1]	ND	1.3	0.66	mg/Kg dry	50		SW-846 8082A	2/20/14	2/21/14 16:14	MJC
Aroclor-1248 [1]	ND	1.3	0.75	mg/Kg dry	50		SW-846 8082A	2/20/14	2/21/14 16:14	MJC
Aroclor-1254 [2]	2.9	1.3	0.56	mg/Kg dry	50		SW-846 8082A	2/20/14	2/21/14 16:14	MJC
Aroclor-1260 [1]	7.6	1.3	0.62	mg/Kg dry	50		SW-846 8082A	2/20/14	2/21/14 16:14	MJC
Aroclor-1262 [1]	ND	1.3	0.53	mg/Kg dry	50		SW-846 8082A	2/20/14	2/21/14 16:14	MJC
Aroclor-1268 [1]	ND	1.3	0.78	mg/Kg dry	50		SW-846 8082A	2/20/14	2/21/14 16:14	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	*		30-150		S-01					
Decachlorobiphenyl [2]	*		30-150		S-01					
Tetrachloro-m-xylene [1]	*		30-150		S-01					
Tetrachloro-m-xylene [2]	*		30-150		S-01					



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

Project Location: 5140 Commercial Dr, Yorville, N

Sample Description:

Work Order: 14B0517

Date Received: 2/20/2014

Field Sample #: Berm 5N-165E

Sampled: 2/19/2014 14:45

Sample ID: 14B0517-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.4		% Wt	1		SM 2540G	2/20/14	2/24/14 15:04	WAL

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

Project Location: 5140 Commercial Dr, Yorville, N

Sample Description:

Work Order: 14B0517

Date Received: 2/20/2014

Field Sample #: Berm 5N-175E

Sampled: 2/19/2014 14:50

Sample ID: 14B0517-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.67	0.21	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 16:27	MJC
Aroclor-1221 [1]	ND	0.67	0.66	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 16:27	MJC
Aroclor-1232 [1]	ND	0.67	0.42	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 16:27	MJC
Aroclor-1242 [1]	ND	0.67	0.34	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 16:27	MJC
Aroclor-1248 [1]	1.2	0.67	0.39	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 16:27	MJC
Aroclor-1254 [2]	2.2	0.67	0.29	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 16:27	MJC
Aroclor-1260 [2]	5.4	0.67	0.32	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 16:27	MJC
Aroclor-1262 [1]	ND	0.67	0.28	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 16:27	MJC
Aroclor-1268 [1]	ND	0.67	0.40	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 16:27	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	93.5		30-150				2/21/14 16:27			
Decachlorobiphenyl [2]	89.0		30-150				2/21/14 16:27			
Tetrachloro-m-xylene [1]	82.3		30-150				2/21/14 16:27			
Tetrachloro-m-xylene [2]	89.2		30-150				2/21/14 16:27			



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

Project Location: 5140 Commercial Dr, Yorville, N

Sample Description:

Work Order: 14B0517

Date Received: 2/20/2014

Field Sample #: Berm 5N-175E

Sampled: 2/19/2014 14:50

Sample ID: 14B0517-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	73.8		% Wt	1		SM 2540G	2/20/14	2/24/14 15:04	WAL

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

Project Location: 5140 Commercial Dr, Yorville, N

Sample Description:

Work Order: 14B0517

Date Received: 2/20/2014

Field Sample #: Berm 5N-185E

Sampled: 2/19/2014 14:55

Sample ID: 14B0517-05

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.5	0.76	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 16:40	MJC
Aroclor-1221 [1]	ND	2.5	2.4	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 16:40	MJC
Aroclor-1232 [1]	ND	2.5	1.5	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 16:40	MJC
Aroclor-1242 [1]	ND	2.5	1.3	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 16:40	MJC
Aroclor-1248 [1]	ND	2.5	1.4	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 16:40	MJC
Aroclor-1254 [2]	6.0	2.5	1.1	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 16:40	MJC
Aroclor-1260 [1]	16	2.5	1.2	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 16:40	MJC
Aroclor-1262 [1]	ND	2.5	1.0	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 16:40	MJC
Aroclor-1268 [1]	ND	2.5	1.5	mg/Kg dry	100		SW-846 8082A	2/20/14	2/21/14 16:40	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	*		30-150		S-01					
Decachlorobiphenyl [2]	*		30-150		S-01					
Tetrachloro-m-xylene [1]	*		30-150		S-01					
Tetrachloro-m-xylene [2]	*		30-150		S-01					



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

Project Location: 5140 Commercial Dr, Yorville, N

Sample Description:

Work Order: 14B0517

Date Received: 2/20/2014

Field Sample #: Berm 5N-185E

Sampled: 2/19/2014 14:55

Sample ID: 14B0517-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.1		% Wt	1		SM 2540G	2/20/14	2/24/14 15:04	WAL

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

Project Location: 5140 Commercial Dr, Yorville, N

Sample Description:

Work Order: 14B0517

Date Received: 2/20/2014

Field Sample #: Berm 5N-195E

Sampled: 2/19/2014 15:00

Sample ID: 14B0517-06

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	12	3.7	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 16:53	MJC
Aroclor-1221 [1]	ND	12	12	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 16:53	MJC
Aroclor-1232 [1]	ND	12	7.4	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 16:53	MJC
Aroclor-1242 [1]	ND	12	6.1	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 16:53	MJC
Aroclor-1248 [1]	ND	12	7.0	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 16:53	MJC
Aroclor-1254 [2]	18	12	5.2	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 16:53	MJC
Aroclor-1260 [2]	56	12	5.8	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 16:53	MJC
Aroclor-1262 [1]	ND	12	4.9	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 16:53	MJC
Aroclor-1268 [1]	ND	12	7.2	mg/Kg dry	500		SW-846 8082A	2/20/14	2/21/14 16:53	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	*		30-150		S-01					
Decachlorobiphenyl [2]	*		30-150		S-01					
Tetrachloro-m-xylene [1]	*		30-150		S-01					
Tetrachloro-m-xylene [2]	*		30-150		S-01					



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

Project Location: 5140 Commercial Dr, Yorville, N

Sample Description:

Work Order: 14B0517

Date Received: 2/20/2014

Field Sample #: Berm 5N-195E

Sampled: 2/19/2014 15:00

Sample ID: 14B0517-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.9		% Wt	1		SM 2540G	2/20/14	2/24/14 15:04	WAL

Project Location: 5140 Commercial Dr, Yorville, N

Sample Description:

Work Order: 14B0517

Date Received: 2/20/2014

Field Sample #: Berm 5N-205E

Sampled: 2/19/2014 15:05

Sample ID: 14B0517-07

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.72	0.22	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 17:06	MJC
Aroclor-1221 [1]	ND	0.72	0.71	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 17:06	MJC
Aroclor-1232 [1]	ND	0.72	0.45	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 17:06	MJC
Aroclor-1242 [1]	ND	0.72	0.37	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 17:06	MJC
Aroclor-1248 [1]	ND	0.72	0.42	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 17:06	MJC
Aroclor-1254 [2]	1.2	0.72	0.31	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 17:06	MJC
Aroclor-1260 [1]	3.3	0.72	0.35	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 17:06	MJC
Aroclor-1262 [1]	ND	0.72	0.30	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 17:06	MJC
Aroclor-1268 [1]	ND	0.72	0.43	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 17:06	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	86.9		30-150				2/21/14 17:06			
Decachlorobiphenyl [2]	87.8		30-150				2/21/14 17:06			
Tetrachloro-m-xylene [1]	80.0		30-150				2/21/14 17:06			
Tetrachloro-m-xylene [2]	87.7		30-150				2/21/14 17:06			



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

Project Location: 5140 Commercial Dr, Yorville, N

Sample Description:

Work Order: 14B0517

Date Received: 2/20/2014

Field Sample #: Berm 5N-205E

Sampled: 2/19/2014 15:05

Sample ID: 14B0517-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.4		% Wt	1		SM 2540G	2/20/14	2/24/14 15:04	WAL

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

Project Location: 5140 Commercial Dr, Yorville, N

Sample Description:

Work Order: 14B0517

Date Received: 2/20/2014

Field Sample #: Berm 10N-205E

Sampled: 2/19/2014 15:10

Sample ID: 14B0517-08

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.70	0.22	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 17:19	MJC
Aroclor-1221 [1]	ND	0.70	0.69	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 17:19	MJC
Aroclor-1232 [1]	ND	0.70	0.43	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 17:19	MJC
Aroclor-1242 [1]	ND	0.70	0.36	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 17:19	MJC
Aroclor-1248 [1]	ND	0.70	0.41	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 17:19	MJC
Aroclor-1254 [1]	2.0	0.70	0.30	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 17:19	MJC
Aroclor-1260 [2]	2.8	0.70	0.34	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 17:19	MJC
Aroclor-1262 [1]	ND	0.70	0.29	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 17:19	MJC
Aroclor-1268 [1]	ND	0.70	0.42	mg/Kg dry	25		SW-846 8082A	2/20/14	2/21/14 17:19	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	77.8		30-150				2/21/14 17:19			
Decachlorobiphenyl [2]	80.7		30-150				2/21/14 17:19			
Tetrachloro-m-xylene [1]	76.8		30-150				2/21/14 17:19			
Tetrachloro-m-xylene [2]	81.5		30-150				2/21/14 17:19			



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

Project Location: 5140 Commercial Dr, Yorville, N

Sample Description:

Work Order: 14B0517

Date Received: 2/20/2014

Field Sample #: Berm 10N-205E

Sampled: 2/19/2014 15:10

Sample ID: 14B0517-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	70.1		% Wt	1		SM 2540G	2/20/14	2/24/14 15:04	WAL

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
14B0517-01 [N. Footer Conc.]	B090651	02/20/14
14B0517-02 [Berm 5N-155E]	B090651	02/20/14
14B0517-03 [Berm 5N-165E]	B090651	02/20/14
14B0517-04 [Berm 5N-175E]	B090651	02/20/14
14B0517-05 [Berm 5N-185E]	B090651	02/20/14
14B0517-06 [Berm 5N-195E]	B090651	02/20/14
14B0517-07 [Berm 5N-205E]	B090651	02/20/14
14B0517-08 [Berm 10N-205E]	B090651	02/20/14

Prep Method: SW-846 3010A-SW-846 6010C

Leachates were extracted on 2/20/2014 per SW-846 1311 in Batch B090661

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14B0517-01 [N. Footer Conc.]	B090694	50.0	50.0	02/21/14

Prep Method: SW-846 7470A Prep-SW-846 7470A

Leachates were extracted on 2/20/2014 per SW-846 1311 in Batch B090661

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14B0517-01 [N. Footer Conc.]	B090699	6.00	6.00	02/21/14

Prep Method: SW-846 3510C-SW-846 8081B

Leachates were extracted on 2/20/2014 per SW-846 1311 in Batch B090661

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14B0517-01 [N. Footer Conc.]	B090690	500	5.00	02/21/14

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14B0517-01 [N. Footer Conc.]	B090653	10.3	10.0	02/20/14
14B0517-02 [Berm 5N-155E]	B090653	10.0	10.0	02/20/14
14B0517-03 [Berm 5N-165E]	B090653	10.1	10.0	02/20/14
14B0517-04 [Berm 5N-175E]	B090653	10.1	10.0	02/20/14
14B0517-05 [Berm 5N-185E]	B090653	10.3	10.0	02/20/14
14B0517-06 [Berm 5N-195E]	B090653	10.3	10.0	02/20/14
14B0517-07 [Berm 5N-205E]	B090653	10.0	10.0	02/20/14
14B0517-08 [Berm 10N-205E]	B090653	10.2	10.0	02/20/14

Prep Method: SW-846 3510C-SW-846 8151A

Leachates were extracted on 2/20/2014 per SW-846 1311 in Batch B090661

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14B0517-01 [N. Footer Conc.]	B090683	10.0	5.00	02/21/14

Prep Method: SW-846 5030B-SW-846 8260C

Leachates were extracted on 2/20/2014 per SW-846 1311 in Batch B090654

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14B0517-01 [N. Footer Conc.]	B090687	5	5.00	02/21/14

Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8270D

Leachates were extracted on 2/20/2014 per SW-846 1311 in Batch B090661

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14B0517-01 [N. Footer Conc.]	B090691	200	1.00	02/21/14

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
14B0517-01 [N. Footer Conc.]	B090685	20.0	02/21/14

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090653 - SW-846 3546
Blank (B090653-BLK1)

Prepared & Analyzed: 02/20/14

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.189		mg/Kg wet	0.200		94.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.190		mg/Kg wet	0.200		94.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.166		mg/Kg wet	0.200		83.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.179		mg/Kg wet	0.200		89.7	30-150			

LCS (B090653-BS1)

Prepared & Analyzed: 02/20/14

Aroclor-1016	0.14	0.10	mg/Kg wet	0.200		70.6	40-140			
Aroclor-1016 [2C]	0.17	0.10	mg/Kg wet	0.200		83.2	40-140			
Aroclor-1260	0.16	0.10	mg/Kg wet	0.200		77.8	40-140			
Aroclor-1260 [2C]	0.15	0.10	mg/Kg wet	0.200		77.0	40-140			
Surrogate: Decachlorobiphenyl	0.169		mg/Kg wet	0.200		84.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.169		mg/Kg wet	0.200		84.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.147		mg/Kg wet	0.200		73.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.160		mg/Kg wet	0.200		80.1	30-150			

LCS Dup (B090653-BSD1)

Prepared & Analyzed: 02/20/14

Aroclor-1016	0.15	0.10	mg/Kg wet	0.200		77.5	40-140	9.25	30	
Aroclor-1016 [2C]	0.18	0.10	mg/Kg wet	0.200		88.1	40-140	5.72	30	
Aroclor-1260	0.16	0.10	mg/Kg wet	0.200		82.3	40-140	5.56	30	
Aroclor-1260 [2C]	0.16	0.10	mg/Kg wet	0.200		82.0	40-140	6.33	30	
Surrogate: Decachlorobiphenyl	0.169		mg/Kg wet	0.200		84.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.170		mg/Kg wet	0.200		85.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.160		mg/Kg wet	0.200		80.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.175		mg/Kg wet	0.200		87.5	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090653 - SW-846 3546

Matrix Spike (B090653-MS1)		Source: 14B0517-02			Prepared: 02/20/14 Analyzed: 02/21/14					
Aroclor-1016	1.4	0.13	mg/Kg dry	0.260	ND	542	*	40-140		MS-21
Aroclor-1016 [2C]	1.4	0.13	mg/Kg dry	0.260	ND	546	*	40-140		MS-21
Aroclor-1260	26	0.13	mg/Kg dry	0.260	26	-182	*	40-140		MS-21
Aroclor-1260 [2C]	25	0.13	mg/Kg dry	0.260	26	-349	*	40-140		MS-21
Surrogate: Decachlorobiphenyl	0.161		mg/Kg dry	0.260		61.9		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.262		mg/Kg dry	0.260		101		30-150		
Surrogate: Tetrachloro-m-xylene	0.184		mg/Kg dry	0.260		70.6		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.207		mg/Kg dry	0.260		79.5		30-150		

Matrix Spike Dup (B090653-MSD1)		Source: 14B0517-02			Prepared: 02/20/14 Analyzed: 02/21/14					
Aroclor-1016	1.6	0.13	mg/Kg dry	0.255	ND	621	*	40-140	30	MS-21
Aroclor-1016 [2C]	1.6	0.13	mg/Kg dry	0.255	ND	621	*	40-140	30	MS-21
Aroclor-1260	31	0.13	mg/Kg dry	0.255	26	1730	*	40-140	17.4	MS-21
Aroclor-1260 [2C]	28	0.13	mg/Kg dry	0.255	26	810	*	40-140	11.3	MS-21
Surrogate: Decachlorobiphenyl	0.168		mg/Kg dry	0.255		65.9		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.286		mg/Kg dry	0.255		112		30-150		
Surrogate: Tetrachloro-m-xylene	0.189		mg/Kg dry	0.255		73.8		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.213		mg/Kg dry	0.255		83.4		30-150		

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090651 - % Solids

Duplicate (B090651-DUP1)

Source: 14B0517-01

Prepared: 02/20/14 Analyzed: 02/24/14

% Solids	91.1		% Wt		90.6			0.550	20	

Batch B090685 - SW-846 9045C

LCS (B090685-BS1)

Prepared & Analyzed: 02/21/14

pH	6.04		pH Units	6.00		101	99-102			

QUALITY CONTROL
TCLP - Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B090687 - SW-846 5030B										
Blank (B090687-BLK1)				Prepared & Analyzed: 02/21/14						
Benzene	ND	0.010	mg/L							
2-Butanone (MEK)	ND	0.20	mg/L							R-05
Carbon Tetrachloride	ND	0.050	mg/L							
Chlorobenzene	ND	0.010	mg/L							
Chloroform	ND	0.020	mg/L							
1,4-Dichlorobenzene	ND	0.010	mg/L							
1,2-Dichloroethane	ND	0.010	mg/L							
1,1-Dichloroethylene	ND	0.010	mg/L							
Tetrachloroethylene	ND	0.010	mg/L							
Trichloroethylene	ND	0.010	mg/L							
Vinyl Chloride	ND	0.020	mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0213		mg/L	0.0250		85.0	70-130			
Surrogate: Toluene-d8	0.0266		mg/L	0.0250		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.0248		mg/L	0.0250		99.3	70-130			
LCS (B090687-BS1)				Prepared & Analyzed: 02/21/14						
Benzene	0.00865	0.0010	mg/L	0.0100		86.5	70-130			
2-Butanone (MEK)	0.100	0.020	mg/L	0.100		100	40-160			R-05, V-20 †
Carbon Tetrachloride	0.0101	0.0050	mg/L	0.0100		101	70-130			
Chlorobenzene	0.00970	0.0010	mg/L	0.0100		97.0	70-130			
Chloroform	0.00943	0.0020	mg/L	0.0100		94.3	70-130			
1,4-Dichlorobenzene	0.00980	0.0010	mg/L	0.0100		98.0	70-130			
1,2-Dichloroethane	0.00945	0.0010	mg/L	0.0100		94.5	70-130			
1,1-Dichloroethylene	0.0112	0.0010	mg/L	0.0100		112	70-130			
Tetrachloroethylene	0.00984	0.0010	mg/L	0.0100		98.4	70-130			
Trichloroethylene	0.00955	0.0010	mg/L	0.0100		95.5	70-130			
Vinyl Chloride	0.00777	0.0020	mg/L	0.0100		77.7	40-160			†
Surrogate: 1,2-Dichloroethane-d4	0.0228		mg/L	0.0250		91.0	70-130			
Surrogate: Toluene-d8	0.0288		mg/L	0.0250		115	70-130			
Surrogate: 4-Bromofluorobenzene	0.0281		mg/L	0.0250		112	70-130			
LCS Dup (B090687-BSD1)				Prepared & Analyzed: 02/21/14						
Benzene	0.00840	0.0010	mg/L	0.0100		84.0	70-130	2.93	25	
2-Butanone (MEK)	0.0748	0.020	mg/L	0.100		74.8	40-160	29.0 *	25	R-05, V-20 †
Carbon Tetrachloride	0.00958	0.0050	mg/L	0.0100		95.8	70-130	5.38	25	
Chlorobenzene	0.00949	0.0010	mg/L	0.0100		94.9	70-130	2.19	25	
Chloroform	0.00974	0.0020	mg/L	0.0100		97.4	70-130	3.23	25	
1,4-Dichlorobenzene	0.0106	0.0010	mg/L	0.0100		106	70-130	7.75	25	
1,2-Dichloroethane	0.00943	0.0010	mg/L	0.0100		94.3	70-130	0.212	25	
1,1-Dichloroethylene	0.0117	0.0010	mg/L	0.0100		117	70-130	4.47	25	
Tetrachloroethylene	0.0113	0.0010	mg/L	0.0100		113	70-130	13.5	25	
Trichloroethylene	0.0115	0.0010	mg/L	0.0100		115	70-130	18.7	25	
Vinyl Chloride	0.00798	0.0020	mg/L	0.0100		79.8	40-160	2.67	25	†
Surrogate: 1,2-Dichloroethane-d4	0.0220		mg/L	0.0250		88.0	70-130			
Surrogate: Toluene-d8	0.0288		mg/L	0.0250		115	70-130			
Surrogate: 4-Bromofluorobenzene	0.0274		mg/L	0.0250		110	70-130			

QUALITY CONTROL
TCLP - Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090687 - SW-846 5030B

Matrix Spike (B090687-MS1)		Source: 14B0517-01		Prepared & Analyzed: 02/21/14						
Benzene	0.108	0.010	mg/L	0.100	ND	108	70-130			
2-Butanone (MEK)	1.19	0.20	mg/L	1.00	ND	119	70-130			R-05, V-20
Carbon Tetrachloride	0.126	0.050	mg/L	0.100	ND	126	70-130			
Chlorobenzene	0.126	0.010	mg/L	0.100	ND	126	70-130			
Chloroform	0.116	0.020	mg/L	0.100	ND	116	70-130			
1,4-Dichlorobenzene	0.117	0.010	mg/L	0.100	ND	117	70-130			
1,2-Dichloroethane	0.119	0.010	mg/L	0.100	ND	119	70-130			
1,1-Dichloroethylene	0.154	0.010	mg/L	0.100	ND	154 *	70-130			MS-14
Tetrachloroethylene	0.126	0.010	mg/L	0.100	ND	126	70-130			
Trichloroethylene	0.220	0.010	mg/L	0.100	ND	220 *	70-130			MS-14
Vinyl Chloride	0.117	0.020	mg/L	0.100	ND	117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0218		mg/L	0.0250		87.0	70-130			
Surrogate: Toluene-d8	0.0263		mg/L	0.0250		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.0290		mg/L	0.0250		116	70-130			

QUALITY CONTROL
TCLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B090691 - SW-846 3510C										
Blank (B090691-BLK1)				Prepared & Analyzed: 02/21/14						
2,4-Dinitrotoluene	ND	0.050	mg/L							
Hexachlorobenzene	ND	0.050	mg/L							
Hexachlorobutadiene	ND	0.050	mg/L							
Hexachloroethane	ND	0.050	mg/L							
2-Methylphenol	ND	0.050	mg/L							
3/4-Methylphenol	ND	0.050	mg/L							
Nitrobenzene	ND	0.050	mg/L							
Pentachlorophenol	ND	0.050	mg/L							
Pyridine	ND	0.025	mg/L							
2,4,5-Trichlorophenol	ND	0.050	mg/L							
2,4,6-Trichlorophenol	ND	0.050	mg/L							
Surrogate: 2-Fluorophenol	0.521		mg/L	1.00		52.1	15-110			
Surrogate: Phenol-d6	0.544		mg/L	1.00		54.4	15-110			
Surrogate: Nitrobenzene-d5	0.297		mg/L	0.500		59.4	30-130			
Surrogate: 2-Fluorobiphenyl	0.317		mg/L	0.500		63.3	30-130			
Surrogate: 2,4,6-Tribromophenol	0.936		mg/L	1.00		93.6	15-110			
Surrogate: p-Terphenyl-d14	0.618		mg/L	0.500		124	30-130			
LCS (B090691-BS1)				Prepared & Analyzed: 02/21/14						
2,4-Dinitrotoluene	0.200	0.050	mg/L	0.250		80.0	40-140			
Hexachlorobenzene	0.215	0.050	mg/L	0.250		86.0	40-140			
Hexachlorobutadiene	0.178	0.050	mg/L	0.250		71.2	40-140			
Hexachloroethane	0.142	0.050	mg/L	0.250		56.8	40-140			
2-Methylphenol	0.187	0.050	mg/L	0.250		74.9	30-130			
3/4-Methylphenol	0.168	0.050	mg/L	0.250		67.1	30-130			
Nitrobenzene	0.166	0.050	mg/L	0.250		66.3	40-140			
Pentachlorophenol	0.191	0.050	mg/L	0.250		76.2	30-130			
Pyridine	0.0627	0.025	mg/L	0.250		25.1	10-140			†
2,4,5-Trichlorophenol	0.208	0.050	mg/L	0.250		83.3	30-130			
2,4,6-Trichlorophenol	0.212	0.050	mg/L	0.250		84.7	30-130			
Surrogate: 2-Fluorophenol	0.568		mg/L	1.00		56.8	15-110			
Surrogate: Phenol-d6	0.597		mg/L	1.00		59.7	15-110			
Surrogate: Nitrobenzene-d5	0.348		mg/L	0.500		69.6	30-130			
Surrogate: 2-Fluorobiphenyl	0.388		mg/L	0.500		77.7	30-130			
Surrogate: 2,4,6-Tribromophenol	0.954		mg/L	1.00		95.4	15-110			
Surrogate: p-Terphenyl-d14	0.423		mg/L	0.500		84.7	30-130			
Matrix Spike (B090691-MS1)				Source: 14B0517-01 Prepared & Analyzed: 02/21/14						
2,4-Dinitrotoluene	0.294	0.050	mg/L	0.250	ND	118	40-140			
Hexachlorobenzene	0.262	0.050	mg/L	0.250	ND	105	40-140			
Hexachlorobutadiene	0.198	0.050	mg/L	0.250	ND	79.0	40-140			
Hexachloroethane	0.172	0.050	mg/L	0.250	ND	68.9	40-140			
2-Methylphenol	0.226	0.050	mg/L	0.250	ND	90.5	40-140			
3/4-Methylphenol	0.189	0.050	mg/L	0.250	ND	75.6	40-140			
Nitrobenzene	0.203	0.050	mg/L	0.250	ND	81.1	40-140			
Pentachlorophenol	0.241	0.050	mg/L	0.250	ND	96.3	40-140			
Pyridine	0.150	0.025	mg/L	0.250	ND	59.9	40-140			
2,4,5-Trichlorophenol	0.261	0.050	mg/L	0.250	ND	104	40-140			
2,4,6-Trichlorophenol	0.237	0.050	mg/L	0.250	ND	94.9	40-140			
Surrogate: 2-Fluorophenol	0.700		mg/L	1.00		70.0	15-110			
Surrogate: Phenol-d6	0.718		mg/L	1.00		71.8	15-110			
Surrogate: Nitrobenzene-d5	0.419		mg/L	0.500		83.7	30-130			

QUALITY CONTROL
TCLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090691 - SW-846 3510C
Matrix Spike (B090691-MS1)
Source: 14B0517-01

Prepared & Analyzed: 02/21/14

Surrogate: 2-Fluorobiphenyl	0.376		mg/L	0.500		75.3	30-130			
Surrogate: 2,4,6-Tribromophenol	1.22		mg/L	1.00		122	* 15-110			S-07
Surrogate: p-Terphenyl-d14	0.441		mg/L	0.500		88.2	30-130			

QUALITY CONTROL
TCLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B090690 - SW-846 3510C										
Blank (B090690-BLK1)				Prepared & Analyzed: 02/21/14						
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
Chlordane	ND	0.20	µg/L							
Chlordane [2C]	ND	0.20	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	1.36		µg/L	2.00		67.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.24		µg/L	2.00		61.9	30-150			
Surrogate: Tetrachloro-m-xylene	1.39		µg/L	2.00		69.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.26		µg/L	2.00		62.8	30-150			
LCS (B090690-BS1)				Prepared & Analyzed: 02/21/14						
gamma-BHC (Lindane)	0.16	0.030	µg/L	0.200		80.5	65-125			
gamma-BHC (Lindane) [2C]	0.18	0.030	µg/L	0.200		92.3	65-125			
Endrin	0.18	0.080	µg/L	0.200		89.9	65-125			
Endrin [2C]	0.18	0.080	µg/L	0.200		89.0	65-125			
Heptachlor	0.17	0.050	µg/L	0.200		84.3	65-125			
Heptachlor [2C]	0.18	0.050	µg/L	0.200		87.8	65-125			
Heptachlor Epoxide	0.18	0.050	µg/L	0.200		90.0	65-125			
Heptachlor Epoxide [2C]	0.18	0.050	µg/L	0.200		87.7	65-125			
Methoxychlor	0.18	0.50	µg/L	0.200		91.7	65-125			
Methoxychlor [2C]	0.20	0.50	µg/L	0.200		100	65-125			
Surrogate: Decachlorobiphenyl	1.44		µg/L	2.00		72.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.27		µg/L	2.00		63.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.48		µg/L	2.00		74.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.41		µg/L	2.00		70.6	30-150			
Matrix Spike (B090690-MS1)				Source: 14B0517-01		Prepared & Analyzed: 02/21/14				
gamma-BHC (Lindane)	0.17	0.030	µg/L	0.200	ND	85.0	0-200			
gamma-BHC (Lindane) [2C]	0.19	0.030	µg/L	0.200	ND	93.2	0-200			
Endrin	0.18	0.080	µg/L	0.200	ND	91.3	0-200			
Endrin [2C]	0.18	0.080	µg/L	0.200	ND	91.9	0-200			
Heptachlor	0.17	0.050	µg/L	0.200	ND	86.2	0-200			
Heptachlor [2C]	0.17	0.050	µg/L	0.200	ND	84.6	0-200			
Heptachlor Epoxide	0.18	0.050	µg/L	0.200	ND	89.9	0-200			
Heptachlor Epoxide [2C]	0.17	0.050	µg/L	0.200	ND	85.9	0-200			
Methoxychlor	0.19	0.50	µg/L	0.200	ND	93.5	0-200			
Methoxychlor [2C]	0.18	0.50	µg/L	0.200	ND	92.1	0-200			
Surrogate: Decachlorobiphenyl	1.08		µg/L	2.00		53.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.978		µg/L	2.00		48.9	30-150			
Surrogate: Tetrachloro-m-xylene	1.47		µg/L	2.00		73.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.40		µg/L	2.00		69.9	30-150			

QUALITY CONTROL
TCLP - Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B090683 - SW-846 3510C										
Blank (B090683-BLK1)										
				Prepared: 02/21/14 Analyzed: 02/22/14						
2,4-D	ND	0.050	mg/L							
2,4-D [2C]	ND	0.050	mg/L							
2,4,5-TP (Silvex)	ND	0.0050	mg/L							
2,4,5-TP (Silvex) [2C]	ND	0.0050	mg/L							
Surrogate: 2,4-Dichlorophenylacetic acid	0.170		mg/L	0.200		85.2	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	0.147		mg/L	0.200		73.3	30-150			
LCS (B090683-BS1)										
				Prepared: 02/21/14 Analyzed: 02/22/14						
2,4-D	0.193	0.050	mg/L	0.250		77.3	40-140			V-06
2,4-D [2C]	0.211	0.050	mg/L	0.250		84.4	40-140			
2,4,5-TP (Silvex)	0.0204	0.0050	mg/L	0.0250		81.5	40-140			V-06
2,4,5-TP (Silvex) [2C]	0.0217	0.0050	mg/L	0.0250		86.9	40-140			V-06
Surrogate: 2,4-Dichlorophenylacetic acid	0.181		mg/L	0.200		90.4	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	0.157		mg/L	0.200		78.6	30-150			
Matrix Spike (B090683-MS1)										
				Source: 14B0517-01		Prepared: 02/21/14 Analyzed: 02/22/14				
2,4-D	0.188	0.050	mg/L	0.250	ND	75.2	30-150			V-06
2,4-D [2C]	0.206	0.050	mg/L	0.250	ND	82.4	30-150			
2,4,5-TP (Silvex)	0.0201	0.0050	mg/L	0.0250	ND	80.5	30-150			V-06
2,4,5-TP (Silvex) [2C]	0.0217	0.0050	mg/L	0.0250	ND	87.0	30-150			V-06
Surrogate: 2,4-Dichlorophenylacetic acid	0.190		mg/L	0.200		94.9	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	0.155		mg/L	0.200		77.4	30-150			

QUALITY CONTROL
TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090694 - SW-846 3010A
Blank (B090694-BLK1)

Prepared & Analyzed: 02/21/14

Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Cadmium	ND	0.0040	mg/L							
Chromium	ND	0.010	mg/L							
Lead	ND	0.010	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.0050	mg/L							

LCS (B090694-BS1)

Prepared & Analyzed: 02/21/14

Arsenic	0.499	0.010	mg/L	0.500		99.7	80-120			
Barium	0.463	0.050	mg/L	0.500		92.6	80-120			
Cadmium	0.501	0.0040	mg/L	0.500		100	80-120			
Chromium	0.464	0.010	mg/L	0.500		92.9	80-120			
Lead	0.437	0.010	mg/L	0.500		87.3	80-120			
Selenium	0.537	0.050	mg/L	0.500		107	80-120			
Silver	0.467	0.0050	mg/L	0.500		93.3	80-120			

LCS Dup (B090694-BSD1)

Prepared & Analyzed: 02/21/14

Arsenic	0.512	0.010	mg/L	0.500		102	80-120	2.56	20	
Barium	0.467	0.050	mg/L	0.500		93.3	80-120	0.812	20	
Cadmium	0.505	0.0040	mg/L	0.500		101	80-120	0.745	20	
Chromium	0.467	0.010	mg/L	0.500		93.3	80-120	0.517	20	
Lead	0.437	0.010	mg/L	0.500		87.4	80-120	0.114	20	
Selenium	0.552	0.050	mg/L	0.500		110	80-120	2.75	20	
Silver	0.468	0.0050	mg/L	0.500		93.5	80-120	0.172	20	

Batch B090699 - SW-846 7470A Prep
Blank (B090699-BLK1)

Prepared & Analyzed: 02/21/14

Mercury	ND	0.00010	mg/L							

LCS (B090699-BS1)

Prepared & Analyzed: 02/21/14

Mercury	0.00203	0.00010	mg/L	0.00200		101	80-120			

LCS Dup (B090699-BSD1)

Prepared & Analyzed: 02/21/14

Mercury	0.00202	0.00010	mg/L	0.00200		101	80-120	0.490	20	

Matrix Spike (B090699-MS1)
Source: 14B0517-01

Prepared & Analyzed: 02/21/14

Mercury	0.00205	0.00010	mg/L	0.00200	ND	102	75-125			

BREAKDOWN REPORT

Lab Sample ID: S005475-PEM1 Analyzed: 02/21/2014

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	0.00
Endrin [1]	3.06

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	0.13
Endrin [2]	2.99

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-01	Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.
MS-14	Matrix spike recovery is outside of control limits. Data validation is not affected since sample result is "not detected" and recovery bias is on the high side for this compound.
MS-21	Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 1030 in Soil</i>	
Ignitability	NY,NH,CT,NC,ME,VA,NJ
<i>SW-846 6010C in Water</i>	
Arsenic	NY,CT,NC,ME,NH,VA,NJ
Barium	NY,CT,ME,NC,NH,VA,NJ
Cadmium	NY,CT,ME,NC,NH,VA,NJ
Chromium	NY,CT,ME,NC,NH,VA,NJ
Lead	NY,CT,ME,NC,NH,VA,NJ
Selenium	CT,ME,NC,NH,NY,VA,NJ
Silver	CT,ME,NC,NH,NY,VA,NJ
<i>SW-846 7470A in Product/Solid</i>	
Mercury	NY,CT,NH,NC,ME,VA,NJ
<i>SW-846 8081B in Water</i>	
gamma-BHC (Lindane)	CT,ME,NC,NH,NY,VA,NJ
gamma-BHC (Lindane) [2C]	CT,ME,NC,NH,NY,VA,NJ
Chlordane	CT,ME,NC,NH,NY,VA,NJ
Chlordane [2C]	CT,ME,NC,NH,NY,VA,NJ
Endrin	CT,ME,NC,NH,NY,VA,NJ
Endrin [2C]	CT,ME,NC,NH,NY,VA,NJ
Heptachlor	CT,ME,NC,NH,NY,VA,NJ
Heptachlor [2C]	CT,ME,NC,NH,NY,VA,NJ
Heptachlor Epoxide	CT,ME,NC,NH,NY,VA,NJ
Heptachlor Epoxide [2C]	CT,ME,NC,NH,NY,VA,NJ
Hexachlorobenzene	NC
Methoxychlor	CT,ME,NC,NH,NY,VA,NJ
Methoxychlor [2C]	CT,ME,NC,NH,NY,VA,NJ
Toxaphene	CT,ME,NC,NH,NY,VA,NJ
Toxaphene [2C]	CT,ME,NC,NH,NY,VA,NJ
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1268 [2C]	NC
SW-846 8260C in Water	
Benzene	ME,NJ,NY,CT,NC,VA
2-Butanone (MEK)	ME,NJ,NY,CT,NC,VA
Carbon Tetrachloride	ME,NJ,NY,CT,NC,VA
Chlorobenzene	ME,NJ,NY,CT,NC,VA
Chloroform	ME,NJ,NY,CT,NC,VA
1,4-Dichlorobenzene	ME,NJ,NY,CT,NC,VA
1,2-Dichloroethane	ME,NJ,NY,CT,NC,VA
1,1-Dichloroethylene	ME,NJ,NY,CT,NC,VA
Hexachlorobutadiene	ME,NJ,NY,VA
Tetrachloroethylene	ME,NJ,NY,CT,NC,VA
Trichloroethylene	ME,NJ,NY,CT,NC,VA
Vinyl Chloride	ME,NJ,NY,CT,NC,VA
SW-846 8270D in Water	
1,4-Dichlorobenzene	ME,NC,NH,NY,VA,NJ
2,4-Dinitrotoluene	ME,NC,NH,CT,NY,VA,NJ
Hexachlorobenzene	ME,NC,NH,CT,NY,VA,NJ
Hexachlorobutadiene	ME,NC,NH,CT,NY,VA,NJ
Hexachloroethane	ME,NC,NH,CT,NY,VA,NJ
2-Methylphenol	ME,NC,NH,CT
3/4-Methylphenol	ME,NC,NH,CT
Nitrobenzene	ME,NC,NH,CT,NY,VA,NJ
Pentachlorophenol	ME,NC,NH,CT,NY,VA,NJ
Pyridine	ME,NC,NH,CT,NY,VA,NJ
2,4,5-Trichlorophenol	ME,NC,NH,CT,NY,VA,NJ
2,4,6-Trichlorophenol	ME,NC,NH,CT,NY,VA,NJ
2-Fluorophenol	NC

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014



con-test
ANALYTICAL LABORATORY

Phone: 413-525-2232
Fax: 413-525-8405
Email: info@con-test-lab.com
www.con-test-lab.com

CHAIN OF CUSTODY RECORD
14B0517
Rev 04.05.12

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name: **WSP USA**

Telephone: **315 655-3900**

Address: **5 Sullivan St.**

Project # **60032927.000/05**

Attention: **DAVE BOUCHARD**

Client PO#

Project Location: **540 Commercial Drive, Weymouth**

DATA DELIVERY (check all that apply)
☐ FAX ☐ EMAIL ☐ CD/STREET

Sampled By: **Kevin Sullivan**

Email: **DAVE.BOUCHARD@wsp.com**

Project Proposal Provided? (for billing purposes)
Yes ☒ No ☐ Proposal date **11/30/14**

Format ☐ BPDF ☐ EXCEL ☐ GIS ☐ OTHER

Con-Test Lab ID (Inventory use only)	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grid	Matrix	Lab Code										
01	N. Foster Conc.	2/14/14	1400		X	S	L		X								
02	Beam SN-155E	2/14/14	1440		X	S	L		X								
03	Beam SN-165E		1445		X	S	L		X								
04	Beam SN-175E		1450		X	S	L		X								
05	Beam SN-185E		1455		X	S	L		X								
06	Beam SN-195E		1500		X	S	L		X								
07	Beam SN-205E		1505		X	S	L		X								
08	Beam SN-205E		1510		X	S	L		X								

Comments: **100% Au Samples - UNRECORDED THAT TELP**
100% is 46 hr. Report PLS to 0.1 mg/kg

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by (signature)	Date/Time	Turnaround	Detection Limit Requirements	Massachusetts
<i>[Signature]</i>	2/19/14	7-Day		

Relinquished by (signature)	Date/Time	Turnaround	Detection Limit Requirements	Massachusetts
<i>[Signature]</i>	2-20-14	10-Day		

Relinquished by (signature)	Date/Time	Turnaround	Detection Limit Requirements	Massachusetts
<i>[Signature]</i>	2-20-14	Other		

Received by (signature)	Date/Time	Turnaround	Detection Limit Requirements	Massachusetts
<i>[Signature]</i>	2-20-14	Other		

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

# of Containers	** Preservation	*** Container Code	Discarded Media
			☐ Field Filtered ☐ Lab to Filter

*** Con-Test Codes:
A - amber glass
G - glass
P - plastic
ST - sterile
V - vial
S - summa can
T - tie-die bag
O - Other

** Preservation
Field Filtered
Lab to Filter

*** Con-Test Codes:
A - amber glass
G - glass
P - plastic
ST - sterile
V - vial
S - summa can
T - tie-die bag
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** Preservation
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*** Con-Test Codes:
A - amber glass
G - glass
P - plastic
ST - sterile
V - vial
S - summa can
T - tie-die bag
O - Other

Is your project MCP or RCP?
☐ MCP Form Required
☐ RCP Form Required
☐ MA State DW Form Required
PHSID # _____
NELAC & AIHA-LAP, LLC
Accredited
WBE/DBE Certified

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT



803791119223

Ship (P) On date:
Wed 2/19/2014 4:45 pm
 CAZ, US

**Delivered**

See details on page 2

Actual delivery:
Thur 2/20/2014 9:30 am
 MA, US

Travel History

Date/Time	Activity	Location
- 2/20/2014 - Thursday		
9:30 am	Delivered	MA
8:17 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:11 am	At local FedEx facility	WINDSOR LOCKS, CT
12:04 am	Departed FedEx location	NEW YORK, NY
- 2/19/2014 - Wednesday		
11:07 pm	Arrived at FedEx location	NEWARK, NJ
7:15 pm	Left FedEx origin facility	CAMPDEN, NJ
4:45 pm	Picked up	CAMPDEN, NJ

Local Scan Time

Shipment Facts

Tracking number	803791119223	Service	FedEx Priority Overnight
Weight	32 lbs	Delivered To	Reception at Front Desk
Total pieces	1	Total shipment weight	32 lbs / 14.5 kg
Shipper reference	14050070001105	Packaging	Yield Packaging
Special handling section	Deer Deer Weekly		

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Page 1 of 2



Sample Receipt Checklist

CLIENT NAME: WSP RECEIVED BY: PR DATE: 2-20-14

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank 20 Temperature °C by Temp gun _____

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

Log In

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz <u>amber</u> /clear jar	<u>10</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	<u>1</u>
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Doc# 277

Rev. 4 August 2013

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False)	Comment
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements?

Doc #277 Rev. 4 August 2013

Log-In Technician Initials:

PB

Date/Time:

Date/Time: 2-20-14
9:30

Pace Analytical e-Report

Report prepared for:

CON-TEST ANALYTICAL LABORATORY
39 SPRUCE STREET
EAST LONGMEADOW, MA 01028
CONTACT: AARON BENOIT

Project ID: 14B0517

Sampling Date(s): February 19, 2014

Lab Report ID: 14020446

Client Service Contact: Chelsea Farmer (518) 346-4592 ext. 3843

Analysis Included:

Ignitability

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Dan Pflzer
Laboratory Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337),
Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

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Table of Contents

Section 1: CASE NARRATIVE	4
Section 2: QUALIFIERS	6
Section 3: SAMPLE CHAIN OF CUSTODY	8
Section 4: SAMPLE RECEIPT	10
Section 5: Wet Chemistry - Flashpoint	12

1

2

3

4

5

CASE NARRATIVE

February 24, 2014

CASE NARRATIVE

This data package (SDG ID: 14020446) consists of 1 solid sample received on 02/21/2014. The sample is from Project Name: 14B0517.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	<u>Client ID</u>	<u>Collection Date</u>
AR04145	14B0517-01	02/19/2014 14:00

Sample Delivery and Receipt Conditions

- (1.) All samples were delivered to the laboratory via FEDEX delivery service on 02/21/2014.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

Ignitability Analysis

Analysis for ignitability was performed by method SW-846 1030. The following technical and administrative items were noted for the analysis:

- (1.) All quality assurance parameters were met for the analysis.

Respectfully submitted,



Chelsea L. Farmer
Project Manager

QUALIFIERS

Qualifier Definitions

Organic Laboratory Qualifiers

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate recovery not evaluated against control limits due to sample dilution.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

* - Value not within control limits.

Inorganic Laboratory Qualifiers

B - Denotes analyte observed in associated method blank or digestion blank. Analyte concentration should be considered as estimated.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

* - Value not within control limits.

SAMPLE CHAIN OF CUSTODY

SUBCONTRACT ORDER
Con-Test Analytical Laboratory
14B0517

<14020446P1>



SENDING LABORATORY:

Con-Test Analytical Laboratory
39 Spruce Street
East Longmeadow, MA 01028
Phone: 413.525.2332
Fax: 413.525.6405
Project Manager: Aaron L. Benoit

RECEIVING LABORATORY:

Pace Analytical Services - NY
2190 Technology Drive
Schenectady, NY 12308
Phone : (518) 429-5058
Fax: (518) 381-6055

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 14B0517-01	Soil	Sampled: 02/19/14 14:00	AR04145	
Ignitability by SW846 1030	02/24/14 16:00	03/19/14 14:00		
Containers Supplied: 2 oz clear glass (D)				

Released By

Date

2/20/14 1700

Received By

Date

Released By

Date

Received By

Date

Page 1 of 1

SAMPLE RECEIPT



SAMPLE RECEIPT REPORT

14020446

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

CLIENT: CON-TEST ANALYTICAL LABORATORY
PROJECT: 14B0517
LRF: 14020446
REPORT: ANALYTICAL REPORT
EDD: YES
LRF TAT: *1 DAY*

RECEIVED DATE: 02/21/2014 10:06
SHIPPED VIA: FEDEX
SHIPPING ID: 797984621060
NUMBER OF COOLERS: 1
CUSTODY SEAL INTACT: YES
COOLER STATUS: CHILLED
TEMPERATURE(S): 5.4 (IR) °C
SAMPLE SEALS INTACT: NA
SAMPLES PRESERVED PER METHOD GUIDANCE: YES
SAMPLES REC'D IN HOLDTIME: YES
DISPOSAL: BY LAB (45 DAYS)
COC DISCREPANCY: NO

COMMENTS:

CLIENT ID (LAB ID)	TAT-DUE Date ⁴	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
14B0517-01 (AR04145)	*1 DAY* 02-24-14	02/19/2014 14:00	Solid	SW-846 1030	Ignitability	

¹The pH preservation check of Oil and Grease (Method 1664) is performed as soon as possible after sample receipt and may not be included in this report.

²The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.

³Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.

⁴Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.

⁵All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

Reporting Parameters and Lists

SW-846 1030 - Ignitability - (mm/sec)

Burning Rate
Ignitability

Wet Chemistry - Flashpoint



Analytical Sample Results

Job Number: 14020446

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: CON-TEST ANALYTICAL LABORATORY

Project: 14B0517

Client Sample ID: 14B0517-01

Lab Sample ID: 14020446-01 (AR04145)

Collection Date: 02/19/2014 14:00

Sample Matrix: SOLID

Received Date: 02/21/2014 10:06

Percent Solid: 92.5 - Results are based on dry weight unless otherwise noted.

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	Ignitability by EPA SW-846 1030	02/24/2014	RF	NA	NA	NA

Analyte	CAS No.	Result	Dilution Factor	Flags	File ID
Ignitability	NA	Non-Flammable	0.00		

Results are not adjusted for dry weight.

February 25, 2014

Dave Bouchard
WSP
5 Sullivan Street
Cazenovia, NY 13035

Project Location: 5140 Commercial Dr., Yorkville, NY
Client Job Number:
Project Number: E0032927.000/05
Laboratory Work Order Number: 14B0633

Enclosed are results of analyses for samples received by the laboratory on February 22, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", followed by a horizontal line.

Aaron L. Benoit
Project Manager



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

WSP
5 Sullivan Street
Cazenovia, NY 13035
ATTN: Dave Bouchard

REPORT DATE: 2/25/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: E0032927.000/05

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14B0633

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

PROJECT LOCATION: 5140 Commercial Dr., Yorkville, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Berm 5N-215E	14B0633-01	Soil		SM 2540G SW-846 8082A	
Berm 5N-225E	14B0633-02	Soil		SM 2540G SW-846 8082A	
Berm 5N-235E	14B0633-03	Soil		SM 2540G SW-846 8082A	
Berm 5N-245E	14B0633-04	Soil		SM 2540G SW-846 8082A	
Berm 10N-245E	14B0633-05	Soil		SM 2540G SW-846 8082A	
EXC 60N-8E	14B0633-06	Soil		SM 2540G SW-846 8082A	
Slab 45N-5E	14B0633-07	Soil		SM 2540G SW-846 8082A	
Slab 45N-15E	14B0633-08	Soil		SM 2540G SW-846 8082A	
Slab 45N-25E	14B0633-09	Soil		SM 2540G SW-846 8082A	
Slab 55N-25E	14B0633-10	Soil		SM 2540G SW-846 8082A	
Slab 55N-35E	14B0633-11	Soil		SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

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

SW-846 8082A**Qualifications:**

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**Aroclor-1260, Aroclor-1260 [2C]**B090777-MS1, B090777-MSD1

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:**Aroclor-1016, Aroclor-1016 [2C]**B090777-MS1

Sample fingerprint does not match standard exactly. Sample was quantitated against the closest matching standard.

Analyte & Samples(s) Qualified:**Aroclor-1260, Aroclor-1260 [2C]**14B0633-10[Slab 55N-25E]

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:**Aroclor-1016, Aroclor-1016 [2C], Aroclor-1260, Aroclor-1260 [2C]**14B0633-11[Slab 55N-35E], B090777-MSD1, B090777-MS1

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:**Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]**14B0633-06[EXC 60N-8E]

Surrogate outside of control limits.

Analyte & Samples(s) Qualified:**Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]**B090777-MS1

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

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

A handwritten signature in black ink, appearing to read "M. Erickson", is displayed on a light gray rectangular background.

Michael A. Erickson
Laboratory Director

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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0633

Date Received: 2/22/2014

Field Sample #: Berm 5N-215E

Sampled: 2/20/2014 09:05

Sample ID: 14B0633-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.26	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 16:44	MJC
Aroclor-1221 [1]	ND	0.26	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 16:44	MJC
Aroclor-1232 [1]	ND	0.26	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 16:44	MJC
Aroclor-1242 [1]	ND	0.26	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 16:44	MJC
Aroclor-1248 [1]	0.34	0.26	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 16:44	MJC
Aroclor-1254 [2]	1.0	0.26	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 16:44	MJC
Aroclor-1260 [2]	2.7	0.26	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 16:44	MJC
Aroclor-1262 [1]	ND	0.26	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 16:44	MJC
Aroclor-1268 [1]	ND	0.26	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 16:44	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	83.8	30-150						2/24/14 16:44	
Decachlorobiphenyl [2]	99.2	30-150						2/24/14 16:44	
Tetrachloro-m-xylene [1]	89.3	30-150						2/24/14 16:44	
Tetrachloro-m-xylene [2]	80.8	30-150						2/24/14 16:44	



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0633

Date Received: 2/22/2014

Field Sample #: Berm 5N-215E

Sampled: 2/20/2014 09:05

Sample ID: 14B0633-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.8		% Wt	1		SM 2540G	2/24/14	2/25/14 9:36	MXG

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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0633

Date Received: 2/22/2014

Field Sample #: Berm 5N-225E

Sampled: 2/20/2014 09:00

Sample ID: 14B0633-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.25	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:02	MJC
Aroclor-1221 [1]	ND	0.25	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:02	MJC
Aroclor-1232 [1]	ND	0.25	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:02	MJC
Aroclor-1242 [1]	ND	0.25	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:02	MJC
Aroclor-1248 [1]	ND	0.25	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:02	MJC
Aroclor-1254 [2]	0.56	0.25	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:02	MJC
Aroclor-1260 [2]	1.4	0.25	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:02	MJC
Aroclor-1262 [1]	ND	0.25	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:02	MJC
Aroclor-1268 [1]	ND	0.25	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:02	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	89.4	30-150						2/24/14 17:02	
Decachlorobiphenyl [2]	95.4	30-150						2/24/14 17:02	
Tetrachloro-m-xylene [1]	101	30-150						2/24/14 17:02	
Tetrachloro-m-xylene [2]	93.0	30-150						2/24/14 17:02	



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0633

Date Received: 2/22/2014

Field Sample #: Berm 5N-225E

Sampled: 2/20/2014 09:00

Sample ID: 14B0633-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.2		% Wt	1		SM 2540G	2/24/14	2/25/14 9:36	MXG

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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0633

Date Received: 2/22/2014

Field Sample #: Berm 5N-235E

Sampled: 2/20/2014 08:55

Sample ID: 14B0633-03

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:20	MJC
Aroclor-1221 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:20	MJC
Aroclor-1232 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:20	MJC
Aroclor-1242 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:20	MJC
Aroclor-1248 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:20	MJC
Aroclor-1254 [2]	0.48	0.24	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:20	MJC
Aroclor-1260 [2]	1.5	0.24	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:20	MJC
Aroclor-1262 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:20	MJC
Aroclor-1268 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:20	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.4	30-150							
Decachlorobiphenyl [2]	106	30-150							
Tetrachloro-m-xylene [1]	98.8	30-150							
Tetrachloro-m-xylene [2]	89.6	30-150							



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0633

Date Received: 2/22/2014

Field Sample #: Berm 5N-235E

Sampled: 2/20/2014 08:55

Sample ID: 14B0633-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.5		% Wt	1		SM 2540G	2/24/14	2/25/14 9:36	MXG

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0633

Date Received: 2/22/2014

Field Sample #: Berm 5N-245E

Sampled: 2/20/2014 08:45

Sample ID: 14B0633-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	2/24/14	2/24/14 20:46	MJC
Aroclor-1221 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	2/24/14	2/24/14 20:46	MJC
Aroclor-1232 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	2/24/14	2/24/14 20:46	MJC
Aroclor-1242 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	2/24/14	2/24/14 20:46	MJC
Aroclor-1248 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	2/24/14	2/24/14 20:46	MJC
Aroclor-1254 [1]	0.93	0.46	mg/Kg dry	20		SW-846 8082A	2/24/14	2/24/14 20:46	MJC
Aroclor-1260 [2]	3.5	0.46	mg/Kg dry	20		SW-846 8082A	2/24/14	2/24/14 20:46	MJC
Aroclor-1262 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	2/24/14	2/24/14 20:46	MJC
Aroclor-1268 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	2/24/14	2/24/14 20:46	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	95.6	30-150							
Decachlorobiphenyl [2]	125	30-150							
Tetrachloro-m-xylene [1]	90.3	30-150							
Tetrachloro-m-xylene [2]	82.9	30-150							



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0633

Date Received: 2/22/2014

Field Sample #: Berm 5N-245E

Sampled: 2/20/2014 08:45

Sample ID: 14B0633-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.4		% Wt	1		SM 2540G	2/24/14	2/25/14 9:36	MXG

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0633

Date Received: 2/22/2014

Field Sample #: Berm 10N-245E

Sampled: 2/20/2014 08:50

Sample ID: 14B0633-05

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:55	MJC
Aroclor-1221 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:55	MJC
Aroclor-1232 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:55	MJC
Aroclor-1242 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:55	MJC
Aroclor-1248 [1]	0.24	0.23	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:55	MJC
Aroclor-1254 [1]	0.67	0.23	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:55	MJC
Aroclor-1260 [2]	2.6	0.23	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:55	MJC
Aroclor-1262 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:55	MJC
Aroclor-1268 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/24/14	2/24/14 17:55	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	71.7	30-150							
Decachlorobiphenyl [2]	104	30-150							
Tetrachloro-m-xylene [1]	68.4	30-150							
Tetrachloro-m-xylene [2]	61.7	30-150							



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0633

Date Received: 2/22/2014

Field Sample #: Berm 10N-245E

Sampled: 2/20/2014 08:50

Sample ID: 14B0633-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.1		% Wt	1		SM 2540G	2/24/14	2/25/14 9:36	MXG

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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0633

Date Received: 2/22/2014

Field Sample #: EXC 60N-8E

Sampled: 2/21/2014 10:00

Sample ID: 14B0633-06

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1200	mg/Kg dry	50000		SW-846 8082A	2/24/14	2/25/14 8:52	MJC
Aroclor-1221 [1]	ND	1200	mg/Kg dry	50000		SW-846 8082A	2/24/14	2/25/14 8:52	MJC
Aroclor-1232 [1]	ND	1200	mg/Kg dry	50000		SW-846 8082A	2/24/14	2/25/14 8:52	MJC
Aroclor-1242 [1]	ND	1200	mg/Kg dry	50000		SW-846 8082A	2/24/14	2/25/14 8:52	MJC
Aroclor-1248 [1]	ND	1200	mg/Kg dry	50000		SW-846 8082A	2/24/14	2/25/14 8:52	MJC
Aroclor-1254 [1]	ND	1200	mg/Kg dry	50000		SW-846 8082A	2/24/14	2/25/14 8:52	MJC
Aroclor-1260 [2]	6500	1200	mg/Kg dry	50000		SW-846 8082A	2/24/14	2/25/14 8:52	MJC
Aroclor-1262 [1]	ND	1200	mg/Kg dry	50000		SW-846 8082A	2/24/14	2/25/14 8:52	MJC
Aroclor-1268 [1]	ND	1200	mg/Kg dry	50000		SW-846 8082A	2/24/14	2/25/14 8:52	MJC
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			2/25/14 8:52	
Decachlorobiphenyl [2]	*	30-150			S-01			2/25/14 8:52	
Tetrachloro-m-xylene [1]	*	30-150			S-01			2/25/14 8:52	
Tetrachloro-m-xylene [2]	*	30-150			S-01			2/25/14 8:52	



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0633

Date Received: 2/22/2014

Field Sample #: EXC 60N-8E

Sampled: 2/21/2014 10:00

Sample ID: 14B0633-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.2		% Wt	1		SM 2540G	2/24/14	2/25/14 9:36	MXG

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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0633

Date Received: 2/22/2014

Field Sample #: Slab 45N-5E

Sampled: 2/21/2014 11:55

Sample ID: 14B0633-07

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:21	MJC
Aroclor-1221 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:21	MJC
Aroclor-1232 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:21	MJC
Aroclor-1242 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:21	MJC
Aroclor-1248 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:21	MJC
Aroclor-1254 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:21	MJC
Aroclor-1260 [1]	0.082	0.025	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:21	MJC
Aroclor-1262 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:21	MJC
Aroclor-1268 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:21	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	108	30-150							
Decachlorobiphenyl [2]	98.8	30-150							
Tetrachloro-m-xylene [1]	92.4	30-150							
Tetrachloro-m-xylene [2]	81.2	30-150							



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0633

Date Received: 2/22/2014

Field Sample #: Slab 45N-5E

Sampled: 2/21/2014 11:55

Sample ID: 14B0633-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.3		% Wt	1		SM 2540G	2/24/14	2/25/14 9:36	MXG

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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0633

Date Received: 2/22/2014

Field Sample #: Slab 45N-15E

Sampled: 2/21/2014 12:00

Sample ID: 14B0633-08

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:38	MJC
Aroclor-1221 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:38	MJC
Aroclor-1232 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:38	MJC
Aroclor-1242 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:38	MJC
Aroclor-1248 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:38	MJC
Aroclor-1254 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:38	MJC
Aroclor-1260 [2]	0.15	0.024	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:38	MJC
Aroclor-1262 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:38	MJC
Aroclor-1268 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:38	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	109	30-150							
Decachlorobiphenyl [2]	101	30-150							
Tetrachloro-m-xylene [1]	93.3	30-150							
Tetrachloro-m-xylene [2]	82.4	30-150							



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0633

Date Received: 2/22/2014

Field Sample #: Slab 45N-15E

Sampled: 2/21/2014 12:00

Sample ID: 14B0633-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.8		% Wt	1		SM 2540G	2/24/14	2/25/14 9:36	MXG

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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0633

Date Received: 2/22/2014

Field Sample #: Slab 45N-25E

Sampled: 2/21/2014 12:15

Sample ID: 14B0633-09

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:56	MJC
Aroclor-1221 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:56	MJC
Aroclor-1232 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:56	MJC
Aroclor-1242 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:56	MJC
Aroclor-1248 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:56	MJC
Aroclor-1254 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:56	MJC
Aroclor-1260 [1]	0.20	0.022	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:56	MJC
Aroclor-1262 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:56	MJC
Aroclor-1268 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 21:56	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	117	30-150							
Decachlorobiphenyl [2]	108	30-150							
Tetrachloro-m-xylene [1]	98.1	30-150							
Tetrachloro-m-xylene [2]	86.0	30-150							



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0633

Date Received: 2/22/2014

Field Sample #: Slab 45N-25E

Sampled: 2/21/2014 12:15

Sample ID: 14B0633-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.8		% Wt	1		SM 2540G	2/24/14	2/25/14 9:36	MXG

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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0633

Date Received: 2/22/2014

Field Sample #: Slab 55N-25E

Sampled: 2/21/2014 12:20

Sample ID: 14B0633-10

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 22:13	MJC
Aroclor-1221 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 22:13	MJC
Aroclor-1232 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 22:13	MJC
Aroclor-1242 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 22:13	MJC
Aroclor-1248 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 22:13	MJC
Aroclor-1254 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 22:13	MJC
Aroclor-1260 [2]	0.039	0.023	mg/Kg dry	1	O-04	SW-846 8082A	2/24/14	2/24/14 22:13	MJC
Aroclor-1262 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 22:13	MJC
Aroclor-1268 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 22:13	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	110	30-150							
Decachlorobiphenyl [2]	100	30-150							
Tetrachloro-m-xylene [1]	88.1	30-150							
Tetrachloro-m-xylene [2]	77.6	30-150							



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0633

Date Received: 2/22/2014

Field Sample #: Slab 55N-25E

Sampled: 2/21/2014 12:20

Sample ID: 14B0633-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.2		% Wt	1		SM 2540G	2/24/14	2/25/14 9:36	MXG

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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0633

Date Received: 2/22/2014

Field Sample #: Slab 55N-35E

Sampled: 2/21/2014 12:25

Sample ID: 14B0633-11

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.022	mg/Kg dry	1	R-06	SW-846 8082A	2/24/14	2/24/14 22:31	MJC
Aroclor-1221 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 22:31	MJC
Aroclor-1232 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 22:31	MJC
Aroclor-1242 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 22:31	MJC
Aroclor-1248 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 22:31	MJC
Aroclor-1254 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 22:31	MJC
Aroclor-1260 [1]	0.22	0.022	mg/Kg dry	1	R-06	SW-846 8082A	2/24/14	2/24/14 22:31	MJC
Aroclor-1262 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 22:31	MJC
Aroclor-1268 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/24/14	2/24/14 22:31	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	113	30-150							
Decachlorobiphenyl [2]	104	30-150							
Tetrachloro-m-xylene [1]	76.2	30-150							
Tetrachloro-m-xylene [2]	67.1	30-150							



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

Project Location: 5140 Commercial Dr., Yorkville,

Sample Description:

Work Order: 14B0633

Date Received: 2/22/2014

Field Sample #: Slab 55N-35E

Sampled: 2/21/2014 12:25

Sample ID: 14B0633-11

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.9		% Wt	1		SM 2540G	2/24/14	2/25/14 9:36	MXG

Sample Extraction Data**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
14B0633-01 [Berm 5N-215E]	B090790	02/24/14
14B0633-02 [Berm 5N-225E]	B090790	02/24/14
14B0633-03 [Berm 5N-235E]	B090790	02/24/14
14B0633-04 [Berm 5N-245E]	B090790	02/24/14
14B0633-05 [Berm 10N-245E]	B090790	02/24/14
14B0633-06 [EXC 60N-8E]	B090790	02/24/14
14B0633-07 [Slab 45N-5E]	B090790	02/24/14
14B0633-08 [Slab 45N-15E]	B090790	02/24/14
14B0633-09 [Slab 45N-25E]	B090790	02/24/14
14B0633-10 [Slab 55N-25E]	B090790	02/24/14
14B0633-11 [Slab 55N-35E]	B090790	02/24/14

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14B0633-01 [Berm 5N-215E]	B090777	10.0	10.0	02/24/14
14B0633-02 [Berm 5N-225E]	B090777	10.0	10.0	02/24/14
14B0633-03 [Berm 5N-235E]	B090777	10.0	10.0	02/24/14
14B0633-04 [Berm 5N-245E]	B090777	10.1	10.0	02/24/14
14B0633-05 [Berm 10N-245E]	B090777	10.0	10.0	02/24/14
14B0633-06 [EXC 60N-8E]	B090777	10.0	10.0	02/24/14
14B0633-07 [Slab 45N-5E]	B090777	10.0	10.0	02/24/14
14B0633-08 [Slab 45N-15E]	B090777	10.0	10.0	02/24/14
14B0633-09 [Slab 45N-25E]	B090777	10.1	10.0	02/24/14
14B0633-10 [Slab 55N-25E]	B090777	10.0	10.0	02/24/14
14B0633-11 [Slab 55N-35E]	B090777	10.0	10.0	02/24/14

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090777 - SW-846 3546
Blank (B090777-BLK1)

Prepared & Analyzed: 02/24/14

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.205		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.190		mg/Kg wet	0.200		94.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg wet	0.200		85.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.156		mg/Kg wet	0.200		77.8	30-150			

LCS (B090777-BS1)

Prepared & Analyzed: 02/24/14

Aroclor-1016	0.20	0.10	mg/Kg wet	0.200		99.7	40-140			
Aroclor-1016 [2C]	0.18	0.10	mg/Kg wet	0.200		90.5	40-140			
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		101	40-140			
Aroclor-1260 [2C]	0.20	0.10	mg/Kg wet	0.200		98.2	40-140			
Surrogate: Decachlorobiphenyl	0.224		mg/Kg wet	0.200		112	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.208		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene	0.190		mg/Kg wet	0.200		95.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.176		mg/Kg wet	0.200		88.0	30-150			

LCS Dup (B090777-BSD1)

Prepared & Analyzed: 02/24/14

Aroclor-1016	0.21	0.10	mg/Kg wet	0.200		104	40-140	4.04	30	
Aroclor-1016 [2C]	0.19	0.10	mg/Kg wet	0.200		94.6	40-140	4.41	30	
Aroclor-1260	0.21	0.10	mg/Kg wet	0.200		106	40-140	4.52	30	
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		103	40-140	4.98	30	
Surrogate: Decachlorobiphenyl	0.229		mg/Kg wet	0.200		114	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.212		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	0.199		mg/Kg wet	0.200		99.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.182		mg/Kg wet	0.200		91.0	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090777 - SW-846 3546

Matrix Spike (B090777-MS1)		Source: 14B0633-11		Prepared & Analyzed: 02/24/14						
Aroclor-1016	0.062	0.022	mg/Kg dry	0.215	ND	29.0	*	40-140		MS-23
Aroclor-1016 [2C]	0.055	0.022	mg/Kg dry	0.215	ND	25.7	*	40-140		MS-23
Aroclor-1260	0.14	0.022	mg/Kg dry	0.215	0.22	-36.6	*	40-140		MS-07A, R-06
Aroclor-1260 [2C]	0.14	0.022	mg/Kg dry	0.215	0.19	-27.5	*	40-140		MS-07A, R-06
Surrogate: Decachlorobiphenyl	0.0807		mg/Kg dry	0.215		37.5		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.0751		mg/Kg dry	0.215		34.9		30-150		
Surrogate: Tetrachloro-m-xylene	0.0502		mg/Kg dry	0.215		23.3	*	30-150		S-26
Surrogate: Tetrachloro-m-xylene [2C]	0.0439		mg/Kg dry	0.215		20.4	*	30-150		S-26
Matrix Spike Dup (B090777-MSD1)		Source: 14B0633-11		Prepared & Analyzed: 02/24/14						
Aroclor-1016	0.13	0.022	mg/Kg dry	0.215	ND	58.7		40-140	67.8	* 30 R-06
Aroclor-1016 [2C]	0.11	0.022	mg/Kg dry	0.215	ND	51.3		40-140	66.5	* 30 R-06
Aroclor-1260	0.28	0.022	mg/Kg dry	0.215	0.22	31.7	*	40-140	69.8	* 30 R-06, MS-07A
Aroclor-1260 [2C]	0.27	0.022	mg/Kg dry	0.215	0.19	36.5	*	40-140	67.3	* 30 R-06, MS-07A
Surrogate: Decachlorobiphenyl	0.161		mg/Kg dry	0.215		74.8		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.151		mg/Kg dry	0.215		70.2		30-150		
Surrogate: Tetrachloro-m-xylene	0.0966		mg/Kg dry	0.215		44.9		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.0871		mg/Kg dry	0.215		40.4		30-150		

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090790 - % Solids

Duplicate (B090790-DUP7)

Source: 14B0633-11

Prepared: 02/24/14 Analyzed: 02/25/14

% Solids	94.5		% Wt		92.9			1.71	20	

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-23	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
O-04	Sample fingerprint does not match standard exactly. Sample was quantitated against the closest matching standard.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
S-26	Surrogate outside of control limits.

CERTIFICATIONS

Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

CHAIN OF CUSTODY RECORD

14B0633

Page 1 of 1

Project Number: 60032927.00
 Site and Location: 6140 Commerce Dr., Fort Collins, CO 80505

Matrix:
 S = Soil
 A = Air Bu - Bulk
 W = Water
 W = Wipe
 B = Blank
 OW = Only Waste
 O = Other

Contact Name: Dave Bouchard
 Contact Email: Dave.Bouchard@wsp.com
 Sample Name: Lead, Silver
 Sample Signature: [Signature]

Sample Identification:

Depth

Date

Time

Matrix

Number of Containers

Remarks

No

PCB 8082

High Conc.

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IMPORTANT!A winter storm is causing delays and disruptions in the midwestern U.S. [Learn More](#)**804786097071**

Ship (PLU) date:
Fri 2/21/2014 4:15 pm
 CAZ US

**Delivered**

Signed for by: J. J. J. J.

Actual delivery:
Sat 2/22/2014 10:38 am
 MA US

Travel History

Date/Time	Activity	Location
- 2/22/2014 - Saturday		
10:38 am	Delivered	MA
8:51 am	On FedEx vehicle for delivery	WINCHESTER, MA, 01890
8:29 am	At local FedEx facility	WINCHESTER, MA, 01890
6:57 am	At destination sort facility	CAZ / CRAWFORD
4:09 am	Departed FedEx location	MA MAZ07 IN
12:38 am	Arrived at FedEx location	MA MAZ07 IN
- 2/21/2014 - Friday		
4:15 pm	Picked up	CRAWFORD, MA
		Local Scan Time

Shipment Facts

Tracking number	804786097071	Service	FedEx Priority Overnight
Dimensions	23x13x12 in	Delivered To	Shipping/Receiving
Total pieces	1	Shipper reference	E0032057 00005
Packaging	Your Packaging	Special handling section	For Saturday Delivery

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestabs.com



Page 1 of 2



Sample Receipt Checklist

CLIENT NAME: NSP Environmental Energy RECEIVED BY: MS DATE: 02/22/14

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank 2.0°C Temperature °C by Temp gun _____

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers			# of containers
1 Liter Amber		ALL CONTAINERS MUST BE LABELED	8 oz amber/clear jar	<u>12 A</u>
500 mL Amber			4 oz amber/clear jar	
250 mL Amber (8oz amber)			2 oz amber/clear jar	
1 Liter Plastic			Plastic Bag / Ziploc	
500 mL Plastic			SOC Kit	
250 mL plastic			Non-ConTest Container	
40 mL Vial - type listed below			Perchlorate Kit	
Colisure / bacteria bottle			Flashpoint bottle	
Dissolved Oxygen bottle			Other glass jar	
Encore			Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Doc# 277 # Bisulfate _____ # DI Water _____
Rev. 4 August 2013 # Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Page 2 of 2
Login Sample Receipt Checklist
 (Rejection Criteria Listing - Using Sample Acceptance Policy)
 Any False statement will be brought to the attention of Client

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Doc #277 Rev. 4 August 2013

Who notified of False statements?
 Log-In Technician Initials:

Date/Time:
 Date/Time:

MJ 2/22/14 10:38

February 28, 2014

Dave Bouchard
WSP
5 Sullivan Street
Cazenovia, NY 13035

Project Location: 5140 Site - Yorkville, NY
Client Job Number:
Project Number: E0032927.000/05
Laboratory Work Order Number: 14B0729

Enclosed are results of analyses for samples received by the laboratory on February 26, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", followed by a horizontal line.

Aaron L. Benoit
Project Manager

WSP
5 Sullivan Street
Cazenovia, NY 13035
ATTN: Dave Bouchard

REPORT DATE: 2/28/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: E0032927.000/05

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14B0729

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

PROJECT LOCATION: 5140 Site - Yorkville, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Berm-5N-22E	14B0729-01	Soil		SM 2540G SW-846 8082A	
Berm-5N-27E	14B0729-02	Soil		SM 2540G SW-846 8082A	
Berm-5N-32E	14B0729-03	Soil		SM 2540G SW-846 8082A	
Berm-5N-37E	14B0729-04	Soil		SM 2540G SW-846 8082A	
Berm-5N-52E	14B0729-05	Soil		SM 2540G SW-846 8082A	
Berm-5N-57E	14B0729-06	Soil		SM 2540G SW-846 8082A	
Berm-5N-112E	14B0729-07	Soil		SM 2540G SW-846 8082A	
Berm-5N-117E	14B0729-08	Soil		SM 2540G SW-846 8082A	
Berm-5N-162E	14B0729-09	Soil		SM 2540G SW-846 8082A	
Berm-5N-167E	14B0729-10	Soil		SM 2540G SW-846 8082A	
Berm-5N-182E	14B0729-11	Soil		SM 2540G SW-846 8082A	
Berm-5N-187E	14B0729-12	Soil		SM 2540G SW-846 8082A	
Exc-63N-25E	14B0729-13	Soil		SM 2540G SW-846 8082A	
Exc-68N-25E	14B0729-14	Soil		SM 2540G SW-846 8082A	
Exc-58N-25E	14B0729-15	Soil		SM 2540G SW-846 8082A	
Exc-63N-35E	14B0729-16	Soil		SM 2540G SW-846 8082A	
Exc-68N-35E	14B0729-17	Soil		SM 2540G SW-846 8082A	
Exc-58N-35E	14B0729-18	Soil		SM 2540G SW-846 8082A	
Exc-58N-45E	14B0729-19	Soil		SM 2540G SW-846 8082A	
Exc-63N-45E	14B0729-20	Soil		SM 2540G SW-846 8082A	



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

WSP
5 Sullivan Street
Cazenovia, NY 13035
ATTN: Dave Bouchard

REPORT DATE: 2/28/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: E0032927.000/05

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14B0729

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

PROJECT LOCATION: 5140 Site - Yorkville, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Exc-68N-45E	14B0729-21	Soil		SM 2540G SW-846 8082A	
Exc-63N-53E	14B0729-22	Soil		SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

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

REVISED REPORT 02/18/2014: Report revised for incorrect sample IDs listed in the report. Sample IDs for 14B0729-13 through 14B0729-22 were corrected as per COC.

SW-846 8082A

Qualifications:

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]
14B0729-13[Exc-63N-25E], 14B0729-16[Exc-63N-35E]

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

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



Aaron L. Benoit
Project Chemist

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-22E

Sampled: 2/25/2014 08:15

Sample ID: 14B0729-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 18:50	MJC
Aroclor-1221 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 18:50	MJC
Aroclor-1232 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 18:50	MJC
Aroclor-1242 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 18:50	MJC
Aroclor-1248 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 18:50	MJC
Aroclor-1254 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 18:50	MJC
Aroclor-1260 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 18:50	MJC
Aroclor-1262 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 18:50	MJC
Aroclor-1268 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 18:50	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	85.5	30-150							
Decachlorobiphenyl [2]	92.8	30-150							
Tetrachloro-m-xylene [1]	83.8	30-150							
Tetrachloro-m-xylene [2]	90.1	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-22E

Sampled: 2/25/2014 08:15

Sample ID: 14B0729-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.5		% Wt	1		SM 2540G	2/26/14	2/27/14 7:47	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-27E

Sampled: 2/25/2014 08:20

Sample ID: 14B0729-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:02	MJC
Aroclor-1221 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:02	MJC
Aroclor-1232 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:02	MJC
Aroclor-1242 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:02	MJC
Aroclor-1248 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:02	MJC
Aroclor-1254 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:02	MJC
Aroclor-1260 [2]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:02	MJC
Aroclor-1262 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:02	MJC
Aroclor-1268 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:02	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	83.2	30-150							
Decachlorobiphenyl [2]	92.7	30-150							
Tetrachloro-m-xylene [1]	83.1	30-150							
Tetrachloro-m-xylene [2]	89.8	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-27E

Sampled: 2/25/2014 08:20

Sample ID: 14B0729-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.0		% Wt	1		SM 2540G	2/26/14	2/27/14 7:47	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-32E

Sampled: 2/25/2014 08:25

Sample ID: 14B0729-03

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:15	MJC
Aroclor-1221 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:15	MJC
Aroclor-1232 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:15	MJC
Aroclor-1242 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:15	MJC
Aroclor-1248 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:15	MJC
Aroclor-1254 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:15	MJC
Aroclor-1260 [2]	0.037	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:15	MJC
Aroclor-1262 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:15	MJC
Aroclor-1268 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:15	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.2	30-150							
Decachlorobiphenyl [2]	81.8	30-150							
Tetrachloro-m-xylene [1]	76.2	30-150							
Tetrachloro-m-xylene [2]	82.1	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-32E

Sampled: 2/25/2014 08:25

Sample ID: 14B0729-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.9		% Wt	1		SM 2540G	2/26/14	2/27/14 7:47	MXG

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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-37E

Sampled: 2/25/2014 08:30

Sample ID: 14B0729-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:28	MJC
Aroclor-1221 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:28	MJC
Aroclor-1232 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:28	MJC
Aroclor-1242 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:28	MJC
Aroclor-1248 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:28	MJC
Aroclor-1254 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:28	MJC
Aroclor-1260 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:28	MJC
Aroclor-1262 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:28	MJC
Aroclor-1268 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:28	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.2	30-150						2/26/14 19:28	
Decachlorobiphenyl [2]	82.0	30-150						2/26/14 19:28	
Tetrachloro-m-xylene [1]	79.3	30-150						2/26/14 19:28	
Tetrachloro-m-xylene [2]	85.7	30-150						2/26/14 19:28	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-37E

Sampled: 2/25/2014 08:30

Sample ID: 14B0729-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.7		% Wt	1		SM 2540G	2/26/14	2/27/14 7:47	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-52E

Sampled: 2/25/2014 08:35

Sample ID: 14B0729-05

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:41	MJC
Aroclor-1221 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:41	MJC
Aroclor-1232 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:41	MJC
Aroclor-1242 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:41	MJC
Aroclor-1248 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:41	MJC
Aroclor-1254 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:41	MJC
Aroclor-1260 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:41	MJC
Aroclor-1262 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:41	MJC
Aroclor-1268 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 19:41	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	76.1	30-150							
Decachlorobiphenyl [2]	83.9	30-150							
Tetrachloro-m-xylene [1]	79.1	30-150							
Tetrachloro-m-xylene [2]	85.8	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-52E

Sampled: 2/25/2014 08:35

Sample ID: 14B0729-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.1		% Wt	1		SM 2540G	2/26/14	2/27/14 7:47	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-57E

Sampled: 2/25/2014 08:40

Sample ID: 14B0729-06

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.052	mg/Kg dry	2		SW-846 8082A	2/26/14	2/27/14 10:33	JMB
Aroclor-1221 [1]	ND	0.052	mg/Kg dry	2		SW-846 8082A	2/26/14	2/27/14 10:33	JMB
Aroclor-1232 [1]	ND	0.052	mg/Kg dry	2		SW-846 8082A	2/26/14	2/27/14 10:33	JMB
Aroclor-1242 [1]	ND	0.052	mg/Kg dry	2		SW-846 8082A	2/26/14	2/27/14 10:33	JMB
Aroclor-1248 [1]	ND	0.052	mg/Kg dry	2		SW-846 8082A	2/26/14	2/27/14 10:33	JMB
Aroclor-1254 [1]	ND	0.052	mg/Kg dry	2		SW-846 8082A	2/26/14	2/27/14 10:33	JMB
Aroclor-1260 [2]	0.41	0.052	mg/Kg dry	2		SW-846 8082A	2/26/14	2/27/14 10:33	JMB
Aroclor-1262 [1]	ND	0.052	mg/Kg dry	2		SW-846 8082A	2/26/14	2/27/14 10:33	JMB
Aroclor-1268 [1]	ND	0.052	mg/Kg dry	2		SW-846 8082A	2/26/14	2/27/14 10:33	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.0	30-150							
Decachlorobiphenyl [2]	103	30-150							
Tetrachloro-m-xylene [1]	95.9	30-150							
Tetrachloro-m-xylene [2]	102	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-57E

Sampled: 2/25/2014 08:40

Sample ID: 14B0729-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.7		% Wt	1		SM 2540G	2/26/14	2/27/14 7:47	MXG

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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-112E

Sampled: 2/25/2014 08:45

Sample ID: 14B0729-07

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 10:46	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 10:46	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 10:46	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 10:46	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 10:46	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 10:46	JMB
Aroclor-1260 [2]	1.1	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 10:46	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 10:46	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 10:46	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.4	30-150						2/27/14 10:46	
Decachlorobiphenyl [2]	85.6	30-150						2/27/14 10:46	
Tetrachloro-m-xylene [1]	84.1	30-150						2/27/14 10:46	
Tetrachloro-m-xylene [2]	87.0	30-150						2/27/14 10:46	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-112E

Sampled: 2/25/2014 08:45

Sample ID: 14B0729-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.1		% Wt	1		SM 2540G	2/26/14	2/27/14 7:47	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-117E

Sampled: 2/25/2014 08:50

Sample ID: 14B0729-08

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 10:59	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 10:59	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 10:59	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 10:59	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 10:59	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 10:59	JMB
Aroclor-1260 [2]	0.67	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 10:59	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 10:59	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 10:59	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	83.4	30-150							
Decachlorobiphenyl [2]	88.1	30-150							
Tetrachloro-m-xylene [1]	87.0	30-150							
Tetrachloro-m-xylene [2]	90.2	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-117E

Sampled: 2/25/2014 08:50

Sample ID: 14B0729-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.7		% Wt	1		SM 2540G	2/26/14	2/27/14 7:47	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-162E

Sampled: 2/25/2014 08:55

Sample ID: 14B0729-09

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	2/26/14	2/27/14 11:12	JMB
Aroclor-1221 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	2/26/14	2/27/14 11:12	JMB
Aroclor-1232 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	2/26/14	2/27/14 11:12	JMB
Aroclor-1242 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	2/26/14	2/27/14 11:12	JMB
Aroclor-1248 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	2/26/14	2/27/14 11:12	JMB
Aroclor-1254 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	2/26/14	2/27/14 11:12	JMB
Aroclor-1260 [2]	1.9	0.24	mg/Kg dry	10		SW-846 8082A	2/26/14	2/27/14 11:12	JMB
Aroclor-1262 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	2/26/14	2/27/14 11:12	JMB
Aroclor-1268 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	2/26/14	2/27/14 11:12	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.9	30-150							
Decachlorobiphenyl [2]	94.4	30-150							
Tetrachloro-m-xylene [1]	89.3	30-150							
Tetrachloro-m-xylene [2]	91.9	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-162E

Sampled: 2/25/2014 08:55

Sample ID: 14B0729-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.3		% Wt	1		SM 2540G	2/26/14	2/27/14 7:47	MXG

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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-167E

Sampled: 2/25/2014 09:00

Sample ID: 14B0729-10

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 11:25	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 11:25	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 11:25	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 11:25	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 11:25	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 11:25	JMB
Aroclor-1260 [2]	0.64	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 11:25	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 11:25	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/26/14	2/27/14 11:25	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	89.4	30-150							
Decachlorobiphenyl [2]	95.1	30-150							
Tetrachloro-m-xylene [1]	91.2	30-150							
Tetrachloro-m-xylene [2]	94.6	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-167E

Sampled: 2/25/2014 09:00

Sample ID: 14B0729-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.6		% Wt	1		SM 2540G	2/26/14	2/27/14 7:47	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-182E

Sampled: 2/25/2014 11:15

Sample ID: 14B0729-11

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 20:58	MJC
Aroclor-1221 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 20:58	MJC
Aroclor-1232 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 20:58	MJC
Aroclor-1242 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 20:58	MJC
Aroclor-1248 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 20:58	MJC
Aroclor-1254 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 20:58	MJC
Aroclor-1260 [2]	0.15	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 20:58	MJC
Aroclor-1262 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 20:58	MJC
Aroclor-1268 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 20:58	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	85.0	30-150							
Decachlorobiphenyl [2]	97.3	30-150							
Tetrachloro-m-xylene [1]	86.9	30-150							
Tetrachloro-m-xylene [2]	96.3	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-182E

Sampled: 2/25/2014 11:15

Sample ID: 14B0729-11

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.3		% Wt	1		SM 2540G	2/26/14	2/27/14 7:47	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-187E

Sampled: 2/25/2014 11:20

Sample ID: 14B0729-12

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 21:36	MJC
Aroclor-1221 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 21:36	MJC
Aroclor-1232 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 21:36	MJC
Aroclor-1242 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 21:36	MJC
Aroclor-1248 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 21:36	MJC
Aroclor-1254 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 21:36	MJC
Aroclor-1260 [2]	0.092	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 21:36	MJC
Aroclor-1262 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 21:36	MJC
Aroclor-1268 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 21:36	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	89.8	30-150							
Decachlorobiphenyl [2]	103	30-150							
Tetrachloro-m-xylene [1]	92.2	30-150							
Tetrachloro-m-xylene [2]	102	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Berm-5N-187E

Sampled: 2/25/2014 11:20

Sample ID: 14B0729-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.5		% Wt	1		SM 2540G	2/26/14	2/27/14 7:47	MXG

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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Exc-63N-25E

Sampled: 2/25/2014 12:20

Sample ID: 14B0729-13

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/26/14	2/27/14 11:38	JMB
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/26/14	2/27/14 11:38	JMB
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/26/14	2/27/14 11:38	JMB
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/26/14	2/27/14 11:38	JMB
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/26/14	2/27/14 11:38	JMB
Aroclor-1254 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/26/14	2/27/14 11:38	JMB
Aroclor-1260 [2]	7.1	1.1	mg/Kg dry	50		SW-846 8082A	2/26/14	2/27/14 11:38	JMB
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/26/14	2/27/14 11:38	JMB
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/26/14	2/27/14 11:38	JMB
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			2/27/14 11:38	
Decachlorobiphenyl [2]	*	30-150			S-01			2/27/14 11:38	
Tetrachloro-m-xylene [1]	*	30-150			S-01			2/27/14 11:38	
Tetrachloro-m-xylene [2]	*	30-150			S-01			2/27/14 11:38	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Exc-63N-25E

Sampled: 2/25/2014 12:20

Sample ID: 14B0729-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.7		% Wt	1		SM 2540G	2/26/14	2/27/14 7:47	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Exc-68N-25E

Sampled: 2/25/2014 12:25

Sample ID: 14B0729-14

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/26/14	2/27/14 10:39	PJG
Aroclor-1221 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/26/14	2/27/14 10:39	PJG
Aroclor-1232 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/26/14	2/27/14 10:39	PJG
Aroclor-1242 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/26/14	2/27/14 10:39	PJG
Aroclor-1248 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/26/14	2/27/14 10:39	PJG
Aroclor-1254 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/26/14	2/27/14 10:39	PJG
Aroclor-1260 [2]	0.045	0.022	mg/Kg dry	1		SW-846 8082A	2/26/14	2/27/14 10:39	PJG
Aroclor-1262 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/26/14	2/27/14 10:39	PJG
Aroclor-1268 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/26/14	2/27/14 10:39	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	87.0	30-150							
Decachlorobiphenyl [2]	90.4	30-150							
Tetrachloro-m-xylene [1]	89.6	30-150							
Tetrachloro-m-xylene [2]	81.4	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Exc-68N-25E

Sampled: 2/25/2014 12:25

Sample ID: 14B0729-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.4		% Wt	1		SM 2540G	2/26/14	2/27/14 7:47	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Exc-58N-25E

Sampled: 2/25/2014 12:30

Sample ID: 14B0729-15

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 22:15	MJC
Aroclor-1221 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 22:15	MJC
Aroclor-1232 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 22:15	MJC
Aroclor-1242 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 22:15	MJC
Aroclor-1248 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 22:15	MJC
Aroclor-1254 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 22:15	MJC
Aroclor-1260 [2]	0.19	0.025	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 22:15	MJC
Aroclor-1262 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 22:15	MJC
Aroclor-1268 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 22:15	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	81.8	30-150							
Decachlorobiphenyl [2]	93.0	30-150							
Tetrachloro-m-xylene [1]	79.6	30-150							
Tetrachloro-m-xylene [2]	87.4	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Exc-58N-25E

Sampled: 2/25/2014 12:30

Sample ID: 14B0729-15

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.1		% Wt	1		SM 2540G	2/26/14	2/27/14 7:47	MXG

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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Exc-63N-35E

Sampled: 2/25/2014 13:35

Sample ID: 14B0729-16

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.8	mg/Kg dry	200		SW-846 8082A	2/26/14	2/27/14 10:51	PJG
Aroclor-1221 [1]	ND	4.8	mg/Kg dry	200		SW-846 8082A	2/26/14	2/27/14 10:51	PJG
Aroclor-1232 [1]	ND	4.8	mg/Kg dry	200		SW-846 8082A	2/26/14	2/27/14 10:51	PJG
Aroclor-1242 [1]	ND	4.8	mg/Kg dry	200		SW-846 8082A	2/26/14	2/27/14 10:51	PJG
Aroclor-1248 [2]	6.5	4.8	mg/Kg dry	200		SW-846 8082A	2/26/14	2/27/14 10:51	PJG
Aroclor-1254 [1]	ND	4.8	mg/Kg dry	200		SW-846 8082A	2/26/14	2/27/14 10:51	PJG
Aroclor-1260 [2]	26	4.8	mg/Kg dry	200		SW-846 8082A	2/26/14	2/27/14 10:51	PJG
Aroclor-1262 [1]	ND	4.8	mg/Kg dry	200		SW-846 8082A	2/26/14	2/27/14 10:51	PJG
Aroclor-1268 [1]	ND	4.8	mg/Kg dry	200		SW-846 8082A	2/26/14	2/27/14 10:51	PJG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			2/27/14 10:51	
Decachlorobiphenyl [2]	*	30-150			S-01			2/27/14 10:51	
Tetrachloro-m-xylene [1]	*	30-150			S-01			2/27/14 10:51	
Tetrachloro-m-xylene [2]	*	30-150			S-01			2/27/14 10:51	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Exc-63N-35E

Sampled: 2/25/2014 13:35

Sample ID: 14B0729-16

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.3		% Wt	1		SM 2540G	2/26/14	2/27/14 7:47	MXG

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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Exc-68N-35E

Sampled: 2/25/2014 13:40

Sample ID: 14B0729-17

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/27/14 11:05	PJG
Aroclor-1221 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/27/14 11:05	PJG
Aroclor-1232 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/27/14 11:05	PJG
Aroclor-1242 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/27/14 11:05	PJG
Aroclor-1248 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/27/14 11:05	PJG
Aroclor-1254 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/27/14 11:05	PJG
Aroclor-1260 [2]	0.039	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/27/14 11:05	PJG
Aroclor-1262 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/27/14 11:05	PJG
Aroclor-1268 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	2/26/14	2/27/14 11:05	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	89.7	30-150							
Decachlorobiphenyl [2]	92.1	30-150							
Tetrachloro-m-xylene [1]	92.3	30-150							
Tetrachloro-m-xylene [2]	85.9	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Exc-68N-35E

Sampled: 2/25/2014 13:40

Sample ID: 14B0729-17

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.6		% Wt	1		SM 2540G	2/26/14	2/27/14 7:47	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Exc-58N-35E

Sampled: 2/25/2014 13:45

Sample ID: 14B0729-18

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 22:53	MJC
Aroclor-1221 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 22:53	MJC
Aroclor-1232 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 22:53	MJC
Aroclor-1242 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 22:53	MJC
Aroclor-1248 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 22:53	MJC
Aroclor-1254 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 22:53	MJC
Aroclor-1260 [2]	0.034	0.023	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 22:53	MJC
Aroclor-1262 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 22:53	MJC
Aroclor-1268 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 22:53	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	85.0	30-150							
Decachlorobiphenyl [2]	98.7	30-150							
Tetrachloro-m-xylene [1]	82.6	30-150							
Tetrachloro-m-xylene [2]	91.4	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Exc-58N-35E

Sampled: 2/25/2014 13:45

Sample ID: 14B0729-18

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.8		% Wt	1		SM 2540G	2/26/14	2/27/14 7:47	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Exc-58N-45E

Sampled: 2/25/2014 14:10

Sample ID: 14B0729-19

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 23:06	MJC
Aroclor-1221 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 23:06	MJC
Aroclor-1232 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 23:06	MJC
Aroclor-1242 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 23:06	MJC
Aroclor-1248 [1]	0.093	0.023	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 23:06	MJC
Aroclor-1254 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 23:06	MJC
Aroclor-1260 [2]	0.25	0.023	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 23:06	MJC
Aroclor-1262 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 23:06	MJC
Aroclor-1268 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/26/14	2/26/14 23:06	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.0	30-150							
Decachlorobiphenyl [2]	88.5	30-150							
Tetrachloro-m-xylene [1]	71.9	30-150							
Tetrachloro-m-xylene [2]	78.9	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Exc-58N-45E

Sampled: 2/25/2014 14:10

Sample ID: 14B0729-19

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.9		% Wt	1		SM 2540G	2/26/14	2/27/14 7:47	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Exc-63N-45E

Sampled: 2/25/2014 14:20

Sample ID: 14B0729-20

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.48	mg/Kg dry	20		SW-846 8082A	2/26/14	2/27/14 11:17	PJG
Aroclor-1221 [1]	ND	0.48	mg/Kg dry	20		SW-846 8082A	2/26/14	2/27/14 11:17	PJG
Aroclor-1232 [1]	ND	0.48	mg/Kg dry	20		SW-846 8082A	2/26/14	2/27/14 11:17	PJG
Aroclor-1242 [1]	ND	0.48	mg/Kg dry	20		SW-846 8082A	2/26/14	2/27/14 11:17	PJG
Aroclor-1248 [1]	ND	0.48	mg/Kg dry	20		SW-846 8082A	2/26/14	2/27/14 11:17	PJG
Aroclor-1254 [1]	ND	0.48	mg/Kg dry	20		SW-846 8082A	2/26/14	2/27/14 11:17	PJG
Aroclor-1260 [2]	4.1	0.48	mg/Kg dry	20		SW-846 8082A	2/26/14	2/27/14 11:17	PJG
Aroclor-1262 [1]	ND	0.48	mg/Kg dry	20		SW-846 8082A	2/26/14	2/27/14 11:17	PJG
Aroclor-1268 [1]	ND	0.48	mg/Kg dry	20		SW-846 8082A	2/26/14	2/27/14 11:17	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	96.9	30-150						2/27/14 11:17	
Decachlorobiphenyl [2]	98.9	30-150						2/27/14 11:17	
Tetrachloro-m-xylene [1]	94.9	30-150						2/27/14 11:17	
Tetrachloro-m-xylene [2]	86.2	30-150						2/27/14 11:17	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Exc-63N-45E

Sampled: 2/25/2014 14:20

Sample ID: 14B0729-20

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.3		% Wt	1		SM 2540G	2/26/14	2/27/14 7:47	MXG

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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Exc-68N-45E

Sampled: 2/25/2014 14:30

Sample ID: 14B0729-21

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.044	mg/Kg dry	2		SW-846 8082A	2/26/14	2/27/14 11:30	PJG
Aroclor-1221 [1]	ND	0.044	mg/Kg dry	2		SW-846 8082A	2/26/14	2/27/14 11:30	PJG
Aroclor-1232 [1]	ND	0.044	mg/Kg dry	2		SW-846 8082A	2/26/14	2/27/14 11:30	PJG
Aroclor-1242 [1]	ND	0.044	mg/Kg dry	2		SW-846 8082A	2/26/14	2/27/14 11:30	PJG
Aroclor-1248 [1]	0.35	0.044	mg/Kg dry	2		SW-846 8082A	2/26/14	2/27/14 11:30	PJG
Aroclor-1254 [1]	ND	0.044	mg/Kg dry	2		SW-846 8082A	2/26/14	2/27/14 11:30	PJG
Aroclor-1260 [1]	0.33	0.044	mg/Kg dry	2		SW-846 8082A	2/26/14	2/27/14 11:30	PJG
Aroclor-1262 [1]	ND	0.044	mg/Kg dry	2		SW-846 8082A	2/26/14	2/27/14 11:30	PJG
Aroclor-1268 [1]	ND	0.044	mg/Kg dry	2		SW-846 8082A	2/26/14	2/27/14 11:30	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	69.0	30-150							
Decachlorobiphenyl [2]	70.1	30-150							
Tetrachloro-m-xylene [1]	71.4	30-150							
Tetrachloro-m-xylene [2]	63.9	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Exc-68N-45E

Sampled: 2/25/2014 14:30

Sample ID: 14B0729-21

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.7		% Wt	1		SM 2540G	2/26/14	2/27/14 7:47	MXG

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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Exc-63N-53E

Sampled: 2/25/2014 14:40

Sample ID: 14B0729-22

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/26/14	2/27/14 11:43	PJG
Aroclor-1221 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/26/14	2/27/14 11:43	PJG
Aroclor-1232 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/26/14	2/27/14 11:43	PJG
Aroclor-1242 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/26/14	2/27/14 11:43	PJG
Aroclor-1248 [2]	0.45	0.22	mg/Kg dry	10		SW-846 8082A	2/26/14	2/27/14 11:43	PJG
Aroclor-1254 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/26/14	2/27/14 11:43	PJG
Aroclor-1260 [1]	2.4	0.22	mg/Kg dry	10		SW-846 8082A	2/26/14	2/27/14 11:43	PJG
Aroclor-1262 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/26/14	2/27/14 11:43	PJG
Aroclor-1268 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/26/14	2/27/14 11:43	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	109	30-150							
Decachlorobiphenyl [2]	106	30-150							
Tetrachloro-m-xylene [1]	101	30-150							
Tetrachloro-m-xylene [2]	90.4	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0729

Date Received: 2/26/2014

Field Sample #: Exc-63N-53E

Sampled: 2/25/2014 14:40

Sample ID: 14B0729-22

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.9		% Wt	1		SM 2540G	2/26/14	2/27/14 7:47	MXG

Sample Extraction Data**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
14B0729-01 [Berm-5N-22E]	B090943	02/26/14
14B0729-02 [Berm-5N-27E]	B090943	02/26/14
14B0729-03 [Berm-5N-32E]	B090943	02/26/14
14B0729-04 [Berm-5N-37E]	B090943	02/26/14
14B0729-05 [Berm-5N-52E]	B090943	02/26/14
14B0729-06 [Berm-5N-57E]	B090943	02/26/14
14B0729-07 [Berm-5N-112E]	B090943	02/26/14
14B0729-08 [Berm-5N-117E]	B090943	02/26/14
14B0729-09 [Berm-5N-162E]	B090943	02/26/14
14B0729-10 [Berm-5N-167E]	B090943	02/26/14
14B0729-11 [Berm-5N-182E]	B090943	02/26/14
14B0729-12 [Berm-5N-187E]	B090943	02/26/14
14B0729-13 [Exc-63N-25E]	B090943	02/26/14
14B0729-14 [Exc-68N-25E]	B090943	02/26/14
14B0729-15 [Exc-58N-25E]	B090943	02/26/14
14B0729-16 [Exc-63N-35E]	B090943	02/26/14
14B0729-17 [Exc-68N-35E]	B090943	02/26/14
14B0729-18 [Exc-58N-35E]	B090943	02/26/14
14B0729-19 [Exc-58N-45E]	B090943	02/26/14
14B0729-20 [Exc-63N-45E]	B090943	02/26/14
14B0729-21 [Exc-68N-45E]	B090943	02/26/14
14B0729-22 [Exc-63N-53E]	B090943	02/26/14

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14B0729-01 [Berm-5N-22E]	B090939	10.0	10.0	02/26/14
14B0729-02 [Berm-5N-27E]	B090939	10.0	10.0	02/26/14
14B0729-03 [Berm-5N-32E]	B090939	10.0	10.0	02/26/14
14B0729-04 [Berm-5N-37E]	B090939	10.0	10.0	02/26/14
14B0729-05 [Berm-5N-52E]	B090939	10.1	10.0	02/26/14
14B0729-06 [Berm-5N-57E]	B090939	10.0	10.0	02/26/14
14B0729-07 [Berm-5N-112E]	B090939	10.0	10.0	02/26/14
14B0729-08 [Berm-5N-117E]	B090939	10.1	10.0	02/26/14
14B0729-09 [Berm-5N-162E]	B090939	10.0	10.0	02/26/14
14B0729-10 [Berm-5N-167E]	B090939	10.0	10.0	02/26/14
14B0729-11 [Berm-5N-182E]	B090939	10.0	10.0	02/26/14
14B0729-12 [Berm-5N-187E]	B090939	10.0	10.0	02/26/14
14B0729-13 [Exc-63N-25E]	B090939	10.0	10.0	02/26/14
14B0729-14 [Exc-68N-25E]	B090939	10.0	10.0	02/26/14
14B0729-15 [Exc-58N-25E]	B090939	10.0	10.0	02/26/14
14B0729-16 [Exc-63N-35E]	B090939	10.1	10.0	02/26/14
14B0729-17 [Exc-68N-35E]	B090939	10.0	10.0	02/26/14
14B0729-18 [Exc-58N-35E]	B090939	10.0	10.0	02/26/14
14B0729-19 [Exc-58N-45E]	B090939	10.0	10.0	02/26/14
14B0729-20 [Exc-63N-45E]	B090939	10.0	10.0	02/26/14

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14B0729-21 [Exc-68N-45E]	B090940	10.0	10.0	02/26/14
14B0729-22 [Exc-63N-53E]	B090940	10.0	10.0	02/26/14

Sample Extraction Data

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090939 - SW-846 3546
Blank (B090939-BLK1)

Prepared & Analyzed: 02/26/14

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.163		mg/Kg wet	0.200		81.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.163		mg/Kg wet	0.200		81.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.159		mg/Kg wet	0.200		79.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.162		mg/Kg wet	0.200		80.8	30-150			

LCS (B090939-BS1)

Prepared & Analyzed: 02/26/14

Aroclor-1016	0.19	0.10	mg/Kg wet	0.200		95.5	40-140			
Aroclor-1016 [2C]	0.19	0.10	mg/Kg wet	0.200		94.0	40-140			
Aroclor-1260	0.19	0.10	mg/Kg wet	0.200		97.1	40-140			
Aroclor-1260 [2C]	0.20	0.10	mg/Kg wet	0.200		98.5	40-140			
Surrogate: Decachlorobiphenyl	0.182		mg/Kg wet	0.200		90.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.176		mg/Kg wet	0.200		87.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.177		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.175		mg/Kg wet	0.200		87.3	30-150			

LCS Dup (B090939-BSD1)

Prepared & Analyzed: 02/26/14

Aroclor-1016	0.21	0.10	mg/Kg wet	0.200		104	40-140	8.84	30	
Aroclor-1016 [2C]	0.21	0.10	mg/Kg wet	0.200		105	40-140	11.0	30	
Aroclor-1260	0.21	0.10	mg/Kg wet	0.200		104	40-140	7.18	30	
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		107	40-140	8.57	30	
Surrogate: Decachlorobiphenyl	0.192		mg/Kg wet	0.200		96.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.190		mg/Kg wet	0.200		94.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.196		mg/Kg wet	0.200		98.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.196		mg/Kg wet	0.200		98.0	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090939 - SW-846 3546
Matrix Spike (B090939-MS1)
Source: 14B0729-01

Prepared & Analyzed: 02/26/14

Aroclor-1016	0.19	0.024	mg/Kg dry	0.237	ND	80.8	40-140			
Aroclor-1016 [2C]	0.20	0.024	mg/Kg dry	0.237	ND	85.5	40-140			
Aroclor-1260	0.19	0.024	mg/Kg dry	0.237	ND	82.2	40-140			
Aroclor-1260 [2C]	0.20	0.024	mg/Kg dry	0.237	ND	85.8	40-140			
Surrogate: Decachlorobiphenyl	0.188		mg/Kg dry	0.237		79.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.218		mg/Kg dry	0.237		92.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.189		mg/Kg dry	0.237		79.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.208		mg/Kg dry	0.237		87.9	30-150			

Matrix Spike Dup (B090939-MSD1)
Source: 14B0729-01

Prepared: 02/26/14 Analyzed: 02/27/14

Aroclor-1016	0.19	0.024	mg/Kg dry	0.237	ND	80.5	40-140	0.277	30	
Aroclor-1016 [2C]	0.20	0.024	mg/Kg dry	0.237	ND	85.3	40-140	0.224	30	
Aroclor-1260	0.20	0.024	mg/Kg dry	0.237	ND	82.5	40-140	0.282	30	
Aroclor-1260 [2C]	0.20	0.024	mg/Kg dry	0.237	ND	86.2	40-140	0.434	30	
Surrogate: Decachlorobiphenyl	0.190		mg/Kg dry	0.237		80.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.219		mg/Kg dry	0.237		92.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.184		mg/Kg dry	0.237		77.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.203		mg/Kg dry	0.237		85.6	30-150			

Batch B090940 - SW-846 3546
Blank (B090940-BLK1)

Prepared & Analyzed: 02/26/14

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.165		mg/Kg wet	0.200		82.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.168		mg/Kg wet	0.200		84.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.165		mg/Kg wet	0.200		82.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.172		mg/Kg wet	0.200		86.1	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090940 - SW-846 3546
LCS (B090940-BS1)

Prepared & Analyzed: 02/26/14

Aroclor-1016	0.20	0.10	mg/Kg wet	0.200		99.5	40-140			
Aroclor-1016 [2C]	0.20	0.10	mg/Kg wet	0.200		99.1	40-140			
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		99.7	40-140			
Aroclor-1260 [2C]	0.20	0.10	mg/Kg wet	0.200		102	40-140			
Surrogate: Decachlorobiphenyl	0.189		mg/Kg wet	0.200		94.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.187		mg/Kg wet	0.200		93.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.189		mg/Kg wet	0.200		94.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.190		mg/Kg wet	0.200		95.0	30-150			

LCS Dup (B090940-BSD1)

Prepared & Analyzed: 02/26/14

Aroclor-1016	0.20	0.10	mg/Kg wet	0.200		98.4	40-140	1.09	30	
Aroclor-1016 [2C]	0.20	0.10	mg/Kg wet	0.200		97.9	40-140	1.24	30	
Aroclor-1260	0.19	0.10	mg/Kg wet	0.200		97.1	40-140	2.67	30	
Aroclor-1260 [2C]	0.20	0.10	mg/Kg wet	0.200		101	40-140	0.784	30	
Surrogate: Decachlorobiphenyl	0.180		mg/Kg wet	0.200		90.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.180		mg/Kg wet	0.200		89.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.186		mg/Kg wet	0.200		92.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.186		mg/Kg wet	0.200		93.2	30-150			

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B090943 - % Solids

Duplicate (B090943-DUP2)	Source: 14B0729-01			Prepared: 02/26/14 Analyzed: 02/27/14					
% Solids	84.8		% Wt		84.5			0.354	20
Duplicate (B090943-DUP9)	Source: 14B0729-22			Prepared: 02/26/14 Analyzed: 02/27/14					
% Solids	88.9		% Wt		88.9			0.00	20

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

CERTIFICATIONS

Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

Page 1 of 2

$$Z_{\beta}$$


WSP Environment & Energy

CHAIN OF CUSTODY RECORD

14B0729

Page 2 of 2

Project Number: 5190 Cammarac Drive, Kettles, NY
 10032127/005

Site and Location:
 Matrices:
 S = Soil
 Ag = Water
 A = Air Bu = Bulk
 W = Waste
 B = Biota
 DW = Dry Waste
 O = Other

Contact Name: Dave Doucette
 Contact Email: Dave.Doucette@usf6000.com

Sampler's Name: David Doucette
 Sampler's Signature: [Signature]

Sample Identification: [Blank]

Depth: [Blank]

Date: [Blank]

Time: [Blank]

Matrix: [Blank]

Number of Containers: [Blank]

Remarks: [Blank]

Remarks: [Blank]

Remarks: [Blank]

Remarks: [Blank]

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Exc 63N-35E

12-13'

2/25/14

1335

S

1

X

Potential Heavy Cont.

Potential Heavy Cont.

Potential Heavy Cont.

Potential Heavy Cont.

Potential Heavy Cont.

Potential Heavy Cont.

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Potential Heavy Cont.

Potential Heavy Cont.

Potential Heavy Cont.

Potential Heavy Cont.

Potential Heavy Cont.

Exc 68N-35E

6-7'

1

1340

S

1

X

Potential Heavy Cont.

Potential Heavy Cont.

Potential Heavy Cont.

Potential Heavy Cont.

Potential Heavy Cont.

Potential Heavy Cont.

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Potential Heavy Cont.

Exc 58N-35E

6-7'

1

1345

S

1

X

Potential Heavy Cont.

Potential Heavy Cont.

Potential Heavy Cont.

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Exc 58N-45E

6-7'

2/25/14

1410

S

1

X

Potential Heavy Cont.

Potential Heavy Cont.

Potential Heavy Cont.

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Potential Heavy Cont.

Exc 63N-45E

6-7'

1

1430

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1

X

Potential Heavy Cont.

Potential Heavy Cont.

Potential Heavy Cont.

Potential Heavy Cont.

Potential Heavy Cont.

Potential Heavy Cont.

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Potential Heavy Cont.

Exc 63N-53E

6-7'

1

1440

S

1

X

Potential Heavy Cont.

Potential Heavy Cont.

Potential Heavy Cont.

Potential Heavy Cont.

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Potential Heavy Cont.

Relinquished by (Signature): [Signature] Date: 2/15/14 Received by (Signature): [Signature] Date: 2/26/14

Relinquished by (Signature): [Signature] Date: [Blank] Received by (Signature): [Signature] Date: [Blank]

Turn-Around Time: [Blank] Tracking Number: [Blank]

24-Hours (the PCBs)

Region Office: 11190 Sunrise Valley Dr., #300, Reston, VA 20191 / Tel: 703-709-6500

Pittsburgh Office: 750 Holiday Dr., #410, Pittsburgh, PA 15220 / Tel: 412-644-1040

San Jose Office: 2025 Gateway Place, #435, San Jose, CA 95110 / Tel: 408-453-6100

New Jersey Office: 200 Cottonhill Ln., Somerset, NJ 08873 / Tel: 732-564-0888

Denver Office: 4600 South Ulster, #930, Denver, CO 80237 / Tel: 303-850-9200

Minneapolis Office: 123 North 3rd St., #808, Minneapolis, MN 55401 / Tel: 612-343-0510

Webster Office: 300 Trade Center, Suite 4690, Webster, MA 01801

Cincinnati Office: 5 Sullivan St., Cincinnati, OH 45202 / Tel: 313-655-3900

Method of Shipment: [Blank]

Lab Name: [Blank]

Lab Location: [Blank]

Custody Seal Numbers: [Blank]

WSP Environment & Energy

Wed 2/26/2014 9:55 am
Via L3

Date/Time	Activity	Location
* 2/26/2014 - Wednesday		
9:50 am	Left airport	SEA
6:32 am	Got FedEx vehicle for delivery	6100 North 10th St
7:29 am	Arrived FedEx facility	6100 North 10th St
3:45 pm	Departed FedEx location	6100 North St
* 2/25/2014 - Tuesday		
11:19 pm	Arrived at FedEx location	6100 North St
7:30 pm	Left FedEx company facility	6100 North St
4:50 pm	Picked up	6100 North St

Local Scan Time

Tracking number	804 14039 039	Service	Fulls Service, Ocean port
Dimensions	24x14x14 cm	Signature services	Direct Signature required
Delivered To	Ship, no Delivery	Total pieces	1
Shipper reference	1000000000000000	Packaging	Free Packaging
Special handling section	Deliver Weekday, Direct Signature Required		

39 Spruce St.
East Longmeadow, MA 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Page 1 of 2

Sample Receipt Checklist

CLIENT NAME: WSP RECEIVED BY: PB DATE: 2-26-14

1) Was the chain(s) of custody relinquished and signed? ☒ Yes ☐ No ☐ No CoC Included

2) Does the chain agree with the samples? ☒ Yes ☐ No

If not, explain:

3) Are all the samples in good condition? ☒ Yes ☐ No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? ☒ Yes ☐ No ☐ N/A

Temperature °C by Temp blank 2.0 Temperature °C by Temp gun _____

5) Are there Dissolved samples for the lab to filter? ☐ Yes ☒ No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? ☒ Yes ☐ No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

Log in

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	<u>22</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Doc# 277

Rev. 4 August 2013

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

Question	Answer (True/False)		Comment
	T/F/NA		
1) The cooler's custody seal, if present, is intact.	NA		
2) The cooler or samples do not appear to have been compromised or tampered with.	T		
3) Samples were received on ice.	T		
4) Cooler Temperature is acceptable.	T		
5) Cooler Temperature is recorded.	T		
6) COC is filled out in ink and legible.	T		
7) COC is filled out with all pertinent information.	T		
8) Field Sampler's name present on COC.	T		
9) There are no discrepancies between the sample IDs on the container and the COC.	T		
10) Samples are received within Holding Time.	T		
11) Sample containers have legible labels.	T		
12) Containers are not broken or leaking.	T		
13) Air Cassettes are not broken/open.	NA		
14) Sample collection date/times are provided.	T		
15) Appropriate sample containers are used.	T		
16) Proper collection media used.	T		
17) No headspace sample bottles are completely filled.	NA		
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T		
19) Trip blanks provided if applicable.	NA		
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA		
21) Samples do not require splitting or compositing.	T		

Who notified of False statements?**Date/Time:**

Doc #277 Rev. 4 August 2013

Log-In Technician Initials: PBDate/Time: 2-26-14
9:55

February 28, 2014

Dave Bouchard
WSP
5 Sullivan Street
Cazenovia, NY 13035

Project Location: 5140 Site - Yorkville, NY
Client Job Number:
Project Number: E0032927.000/05
Laboratory Work Order Number: 14B0788

Enclosed are results of analyses for samples received by the laboratory on February 27, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", followed by a horizontal line.

Aaron L. Benoit
Project Manager



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

WSP
5 Sullivan Street
Cazenovia, NY 13035
ATTN: Dave Bouchard

REPORT DATE: 2/28/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: E0032927.000/05

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14B0788

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

PROJECT LOCATION: 5140 Site - Yorkville, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Berm-0N-125E	14B0788-01	Soil		SM 2540G SW-846 8082A	
Berm-0N-135E	14B0788-02	Soil		SM 2540G SW-846 8082A	
Berm-0N-145E	14B0788-03	Soil		SM 2540G SW-846 8082A	
Berm-0N-155E	14B0788-04	Soil		SM 2540G SW-846 8082A	
Berm-10N-125E	14B0788-05	Soil		SM 2540G SW-846 8082A	
Berm-10N-135E	14B0788-06	Soil		SM 2540G SW-846 8082A	
Berm-10N-145E	14B0788-07	Soil		SM 2540G SW-846 8082A	
Berm-10N-155E	14B0788-08	Soil		SM 2540G SW-846 8082A	
Berm-5N-122E	14B0788-09	Soil		SM 2540G SW-846 8082A	
Berm-5N-127E	14B0788-10	Soil		SM 2540G SW-846 8082A	
Berm-5N-132E	14B0788-11	Soil		SM 2540G SW-846 8082A	
Berm-5N-137E	14B0788-12	Soil		SM 2540G SW-846 8082A	
Berm-5N-142E	14B0788-13	Soil		SM 2540G SW-846 8082A	
Berm-5N-147E	14B0788-14	Soil		SM 2540G SW-846 8082A	
Berm-5N-152E	14B0788-15	Soil		SM 2540G SW-846 8082A	
Berm-5N-157E	14B0788-16	Soil		SM 2540G SW-846 8082A	
SLAB-5N-15E	14B0788-17	Soil		SM 2540G SW-846 8082A	
SLAB-5N-25E	14B0788-18	Soil		SM 2540G SW-846 8082A	
SLAB-5N-35E	14B0788-19	Soil		SM 2540G SW-846 8082A	
SLAB-5N-45E	14B0788-20	Soil		SM 2540G SW-846 8082A	



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

WSP
5 Sullivan Street
Cazenovia, NY 13035
ATTN: Dave Bouchard

REPORT DATE: 2/28/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: E0032927.000/05

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14B0788

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

PROJECT LOCATION: 5140 Site - Yorkville, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SLAB-15N-5E	14B0788-21	Soil		SM 2540G SW-846 8082A	
SLAB-15N-15E	14B0788-22	Soil		SM 2540G SW-846 8082A	
SLAB-15N-25E	14B0788-23	Soil		SM 2540G SW-846 8082A	
SLAB-15N-35E	14B0788-24	Soil		SM 2540G SW-846 8082A	
SLAB-15N-45E	14B0788-25	Soil		SM 2540G SW-846 8082A	
SLAB-25N-5E	14B0788-26	Soil		SM 2540G SW-846 8082A	
SLAB-25N-15E	14B0788-27	Soil		SM 2540G SW-846 8082A	
SLAB-20N-20E	14B0788-28	Soil		SM 2540G SW-846 8082A	
Sub Slab Pile 1N	14B0788-29	Soil		SM 2540G SW-846 8082A	
Sub Slab Pile 1S	14B0788-30	Soil		SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

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

SW-846 8082A**Qualifications:**

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:**Aroclor-1260, Aroclor-1260 [2C]**B091012-MS1, B091012-MSD1, B091013-MS1, B091013-MSD1

Sample contains two incompletely resolved aroclors. Aroclor with the closest matching pattern is reported.

Analyte & Samples(s) Qualified:**Aroclor-1260, Aroclor-1260 [2C]**14B0788-13[Berm-5N-142E]

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:**Aroclor-1260, Aroclor-1260 [2C]**B091012-MS1, B091012-MSD1, B091013-MS1, B091013-MSD1

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:**Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]**14B0788-29[Sub Slab Pile 1N]

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

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



Michael A. Erickson
Laboratory Director

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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-0N-125E

Sampled: 2/26/2014 15:10

Sample ID: 14B0788-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 21:58	MJC
Aroclor-1221 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 21:58	MJC
Aroclor-1232 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 21:58	MJC
Aroclor-1242 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 21:58	MJC
Aroclor-1248 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 21:58	MJC
Aroclor-1254 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 21:58	MJC
Aroclor-1260 [2]	0.057	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 21:58	MJC
Aroclor-1262 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 21:58	MJC
Aroclor-1268 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 21:58	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	76.8	30-150							
Decachlorobiphenyl [2]	77.1	30-150							
Tetrachloro-m-xylene [1]	80.5	30-150							
Tetrachloro-m-xylene [2]	84.0	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-0N-125E

Sampled: 2/26/2014 15:10

Sample ID: 14B0788-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.2		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-0N-135E

Sampled: 2/26/2014 15:15

Sample ID: 14B0788-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.046	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 6:09	JMB
Aroclor-1221 [1]	ND	0.046	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 6:09	JMB
Aroclor-1232 [1]	ND	0.046	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 6:09	JMB
Aroclor-1242 [1]	ND	0.046	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 6:09	JMB
Aroclor-1248 [1]	ND	0.046	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 6:09	JMB
Aroclor-1254 [1]	ND	0.046	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 6:09	JMB
Aroclor-1260 [2]	0.40	0.046	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 6:09	JMB
Aroclor-1262 [1]	ND	0.046	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 6:09	JMB
Aroclor-1268 [1]	ND	0.046	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 6:09	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	87.8	30-150						2/28/14 6:09	
Decachlorobiphenyl [2]	93.7	30-150						2/28/14 6:09	
Tetrachloro-m-xylene [1]	91.4	30-150						2/28/14 6:09	
Tetrachloro-m-xylene [2]	86.3	30-150						2/28/14 6:09	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-0N-135E

Sampled: 2/26/2014 15:15

Sample ID: 14B0788-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.3		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-0N-145E

Sampled: 2/26/2014 15:20

Sample ID: 14B0788-03

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:23	MJC
Aroclor-1221 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:23	MJC
Aroclor-1232 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:23	MJC
Aroclor-1242 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:23	MJC
Aroclor-1248 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:23	MJC
Aroclor-1254 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:23	MJC
Aroclor-1260 [2]	0.036	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:23	MJC
Aroclor-1262 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:23	MJC
Aroclor-1268 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:23	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	69.1	30-150							
Decachlorobiphenyl [2]	69.5	30-150							
Tetrachloro-m-xylene [1]	74.1	30-150							
Tetrachloro-m-xylene [2]	77.8	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-0N-145E

Sampled: 2/26/2014 15:20

Sample ID: 14B0788-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.6		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG

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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-0N-155E

Sampled: 2/26/2014 15:25

Sample ID: 14B0788-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:40	MJC
Aroclor-1221 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:40	MJC
Aroclor-1232 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:40	MJC
Aroclor-1242 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:40	MJC
Aroclor-1248 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:40	MJC
Aroclor-1254 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:40	MJC
Aroclor-1260 [1]	0.16	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:40	MJC
Aroclor-1262 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:40	MJC
Aroclor-1268 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:40	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	69.2	30-150							
Decachlorobiphenyl [2]	70.1	30-150							
Tetrachloro-m-xylene [1]	71.8	30-150							
Tetrachloro-m-xylene [2]	75.3	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-0N-155E

Sampled: 2/26/2014 15:25

Sample ID: 14B0788-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-10N-125E

Sampled: 2/26/2014 15:30

Sample ID: 14B0788-05

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:58	MJC
Aroclor-1221 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:58	MJC
Aroclor-1232 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:58	MJC
Aroclor-1242 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:58	MJC
Aroclor-1248 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:58	MJC
Aroclor-1254 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:58	MJC
Aroclor-1260 [2]	0.036	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:58	MJC
Aroclor-1262 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:58	MJC
Aroclor-1268 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:58	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	92.8	30-150							
Decachlorobiphenyl [2]	93.5	30-150							
Tetrachloro-m-xylene [1]	88.6	30-150							
Tetrachloro-m-xylene [2]	92.6	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-10N-125E

Sampled: 2/26/2014 15:30

Sample ID: 14B0788-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.9		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-10N-135E

Sampled: 2/26/2014 15:35

Sample ID: 14B0788-06

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:15	MJC
Aroclor-1221 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:15	MJC
Aroclor-1232 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:15	MJC
Aroclor-1242 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:15	MJC
Aroclor-1248 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:15	MJC
Aroclor-1254 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:15	MJC
Aroclor-1260 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:15	MJC
Aroclor-1262 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:15	MJC
Aroclor-1268 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:15	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.1	30-150							
Decachlorobiphenyl [2]	80.9	30-150							
Tetrachloro-m-xylene [1]	81.4	30-150							
Tetrachloro-m-xylene [2]	84.9	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-10N-135E

Sampled: 2/26/2014 15:35

Sample ID: 14B0788-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.4		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-10N-145E

Sampled: 2/26/2014 15:40

Sample ID: 14B0788-07

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 6:22	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 6:22	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 6:22	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 6:22	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 6:22	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 6:22	JMB
Aroclor-1260 [2]	0.56	0.11	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 6:22	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 6:22	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 6:22	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	71.2	30-150						2/28/14 6:22	
Decachlorobiphenyl [2]	73.4	30-150						2/28/14 6:22	
Tetrachloro-m-xylene [1]	75.4	30-150						2/28/14 6:22	
Tetrachloro-m-xylene [2]	69.0	30-150						2/28/14 6:22	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-10N-145E

Sampled: 2/26/2014 15:40

Sample ID: 14B0788-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.4		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-10N-155E

Sampled: 2/26/2014 15:45

Sample ID: 14B0788-08

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:50	MJC
Aroclor-1221 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:50	MJC
Aroclor-1232 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:50	MJC
Aroclor-1242 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:50	MJC
Aroclor-1248 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:50	MJC
Aroclor-1254 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:50	MJC
Aroclor-1260 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:50	MJC
Aroclor-1262 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:50	MJC
Aroclor-1268 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:50	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	82.8	30-150							
Decachlorobiphenyl [2]	82.8	30-150							
Tetrachloro-m-xylene [1]	76.5	30-150							
Tetrachloro-m-xylene [2]	80.0	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-10N-155E

Sampled: 2/26/2014 15:45

Sample ID: 14B0788-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.9		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-5N-122E

Sampled: 2/26/2014 14:00

Sample ID: 14B0788-09

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.045	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 6:35	JMB
Aroclor-1221 [1]	ND	0.045	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 6:35	JMB
Aroclor-1232 [1]	ND	0.045	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 6:35	JMB
Aroclor-1242 [1]	ND	0.045	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 6:35	JMB
Aroclor-1248 [1]	ND	0.045	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 6:35	JMB
Aroclor-1254 [1]	ND	0.045	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 6:35	JMB
Aroclor-1260 [2]	0.38	0.045	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 6:35	JMB
Aroclor-1262 [1]	ND	0.045	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 6:35	JMB
Aroclor-1268 [1]	ND	0.045	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 6:35	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	63.2	30-150							
Decachlorobiphenyl [2]	67.0	30-150							
Tetrachloro-m-xylene [1]	68.1	30-150							
Tetrachloro-m-xylene [2]	63.1	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-5N-122E

Sampled: 2/26/2014 14:00

Sample ID: 14B0788-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.7		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG

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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-5N-127E

Sampled: 2/26/2014 14:05

Sample ID: 14B0788-10

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 6:48	JMB
Aroclor-1221 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 6:48	JMB
Aroclor-1232 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 6:48	JMB
Aroclor-1242 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 6:48	JMB
Aroclor-1248 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 6:48	JMB
Aroclor-1254 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 6:48	JMB
Aroclor-1260 [2]	1.1	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 6:48	JMB
Aroclor-1262 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 6:48	JMB
Aroclor-1268 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 6:48	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	84.4	30-150						2/28/14 6:48	
Decachlorobiphenyl [2]	86.3	30-150						2/28/14 6:48	
Tetrachloro-m-xylene [1]	87.9	30-150						2/28/14 6:48	
Tetrachloro-m-xylene [2]	81.0	30-150						2/28/14 6:48	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-5N-127E

Sampled: 2/26/2014 14:05

Sample ID: 14B0788-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.0		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG

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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-5N-132E

Sampled: 2/26/2014 14:10

Sample ID: 14B0788-11

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 7:01	JMB
Aroclor-1221 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 7:01	JMB
Aroclor-1232 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 7:01	JMB
Aroclor-1242 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 7:01	JMB
Aroclor-1248 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 7:01	JMB
Aroclor-1254 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 7:01	JMB
Aroclor-1260 [1]	1.2	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 7:01	JMB
Aroclor-1262 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 7:01	JMB
Aroclor-1268 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 7:01	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	72.9	30-150						2/28/14 7:01	
Decachlorobiphenyl [2]	74.9	30-150						2/28/14 7:01	
Tetrachloro-m-xylene [1]	77.7	30-150						2/28/14 7:01	
Tetrachloro-m-xylene [2]	71.8	30-150						2/28/14 7:01	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-5N-132E

Sampled: 2/26/2014 14:10

Sample ID: 14B0788-11

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.3		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG

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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-5N-137E

Sampled: 2/26/2014 14:15

Sample ID: 14B0788-12

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 1:30	MJC
Aroclor-1221 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 1:30	MJC
Aroclor-1232 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 1:30	MJC
Aroclor-1242 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 1:30	MJC
Aroclor-1248 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 1:30	MJC
Aroclor-1254 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 1:30	MJC
Aroclor-1260 [2]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 1:30	MJC
Aroclor-1262 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 1:30	MJC
Aroclor-1268 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 1:30	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.1	30-150						2/28/14 1:30	
Decachlorobiphenyl [2]	92.5	30-150						2/28/14 1:30	
Tetrachloro-m-xylene [1]	88.3	30-150						2/28/14 1:30	
Tetrachloro-m-xylene [2]	92.4	30-150						2/28/14 1:30	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-5N-137E

Sampled: 2/26/2014 14:15

Sample ID: 14B0788-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.9		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG

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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-5N-142E

Sampled: 2/26/2014 14:20

Sample ID: 14B0788-13

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 7:14	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 7:14	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 7:14	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 7:14	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 7:14	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 7:14	JMB
Aroclor-1260 [2]	0.89	0.12	mg/Kg dry	5	O-03	SW-846 8082A	2/27/14	2/28/14 7:14	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 7:14	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 7:14	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	71.7	30-150						2/28/14 7:14	
Decachlorobiphenyl [2]	74.6	30-150						2/28/14 7:14	
Tetrachloro-m-xylene [1]	76.9	30-150						2/28/14 7:14	
Tetrachloro-m-xylene [2]	70.4	30-150						2/28/14 7:14	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-5N-142E

Sampled: 2/26/2014 14:20

Sample ID: 14B0788-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.8		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-5N-147E

Sampled: 2/26/2014 14:25

Sample ID: 14B0788-14

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 7:27	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 7:27	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 7:27	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 7:27	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 7:27	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 7:27	JMB
Aroclor-1260 [2]	0.55	0.12	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 7:27	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 7:27	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 7:27	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	53.2	30-150						2/28/14 7:27	
Decachlorobiphenyl [2]	55.1	30-150						2/28/14 7:27	
Tetrachloro-m-xylene [1]	58.0	30-150						2/28/14 7:27	
Tetrachloro-m-xylene [2]	52.8	30-150						2/28/14 7:27	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-5N-147E

Sampled: 2/26/2014 14:25

Sample ID: 14B0788-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.0		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-5N-152E

Sampled: 2/26/2014 14:30

Sample ID: 14B0788-15

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 7:40	JMB
Aroclor-1221 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 7:40	JMB
Aroclor-1232 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 7:40	JMB
Aroclor-1242 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 7:40	JMB
Aroclor-1248 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 7:40	JMB
Aroclor-1254 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 7:40	JMB
Aroclor-1260 [2]	2.1	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 7:40	JMB
Aroclor-1262 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 7:40	JMB
Aroclor-1268 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 7:40	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	76.9	30-150							
Decachlorobiphenyl [2]	78.9	30-150							
Tetrachloro-m-xylene [1]	80.6	30-150							
Tetrachloro-m-xylene [2]	74.0	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-5N-152E

Sampled: 2/26/2014 14:30

Sample ID: 14B0788-15

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.0		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-5N-157E

Sampled: 2/26/2014 14:35

Sample ID: 14B0788-16

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 10:42	JMB
Aroclor-1221 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 10:42	JMB
Aroclor-1232 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 10:42	JMB
Aroclor-1242 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 10:42	JMB
Aroclor-1248 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 10:42	JMB
Aroclor-1254 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 10:42	JMB
Aroclor-1260 [2]	1.8	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 10:42	JMB
Aroclor-1262 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 10:42	JMB
Aroclor-1268 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 10:42	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	61.7	30-150						2/28/14 10:42	
Decachlorobiphenyl [2]	62.1	30-150						2/28/14 10:42	
Tetrachloro-m-xylene [1]	62.0	30-150						2/28/14 10:42	
Tetrachloro-m-xylene [2]	57.1	30-150						2/28/14 10:42	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Berm-5N-157E

Sampled: 2/26/2014 14:35

Sample ID: 14B0788-16

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.3		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-5N-15E

Sampled: 2/26/2014 11:00

Sample ID: 14B0788-17

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 2:57	MJC
Aroclor-1221 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 2:57	MJC
Aroclor-1232 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 2:57	MJC
Aroclor-1242 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 2:57	MJC
Aroclor-1248 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 2:57	MJC
Aroclor-1254 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 2:57	MJC
Aroclor-1260 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 2:57	MJC
Aroclor-1262 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 2:57	MJC
Aroclor-1268 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 2:57	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	63.4	30-150							
Decachlorobiphenyl [2]	65.0	30-150							
Tetrachloro-m-xylene [1]	72.9	30-150							
Tetrachloro-m-xylene [2]	76.2	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-5N-15E

Sampled: 2/26/2014 11:00

Sample ID: 14B0788-17

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.2		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-5N-25E

Sampled: 2/26/2014 11:05

Sample ID: 14B0788-18

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 3:15	MJC
Aroclor-1221 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 3:15	MJC
Aroclor-1232 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 3:15	MJC
Aroclor-1242 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 3:15	MJC
Aroclor-1248 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 3:15	MJC
Aroclor-1254 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 3:15	MJC
Aroclor-1260 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 3:15	MJC
Aroclor-1262 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 3:15	MJC
Aroclor-1268 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/28/14 3:15	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	81.1	30-150							
Decachlorobiphenyl [2]	83.5	30-150							
Tetrachloro-m-xylene [1]	85.7	30-150							
Tetrachloro-m-xylene [2]	87.5	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-5N-25E

Sampled: 2/26/2014 11:05

Sample ID: 14B0788-18

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.9		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG

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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-5N-35E

Sampled: 2/26/2014 11:10

Sample ID: 14B0788-19

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.045	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 7:53	JMB
Aroclor-1221 [1]	ND	0.045	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 7:53	JMB
Aroclor-1232 [1]	ND	0.045	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 7:53	JMB
Aroclor-1242 [1]	ND	0.045	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 7:53	JMB
Aroclor-1248 [1]	ND	0.045	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 7:53	JMB
Aroclor-1254 [1]	ND	0.045	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 7:53	JMB
Aroclor-1260 [2]	0.44	0.045	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 7:53	JMB
Aroclor-1262 [1]	ND	0.045	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 7:53	JMB
Aroclor-1268 [1]	ND	0.045	mg/Kg dry	2		SW-846 8082A	2/27/14	2/28/14 7:53	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	60.7	30-150						2/28/14 7:53	
Decachlorobiphenyl [2]	63.8	30-150						2/28/14 7:53	
Tetrachloro-m-xylene [1]	65.4	30-150						2/28/14 7:53	
Tetrachloro-m-xylene [2]	61.8	30-150						2/28/14 7:53	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-5N-35E

Sampled: 2/26/2014 11:10

Sample ID: 14B0788-19

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.9		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-5N-45E

Sampled: 2/26/2014 11:15

Sample ID: 14B0788-20

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 10:29	JMB
Aroclor-1221 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 10:29	JMB
Aroclor-1232 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 10:29	JMB
Aroclor-1242 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 10:29	JMB
Aroclor-1248 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 10:29	JMB
Aroclor-1254 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 10:29	JMB
Aroclor-1260 [1]	1.8	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 10:29	JMB
Aroclor-1262 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 10:29	JMB
Aroclor-1268 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 10:29	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.5	30-150						2/28/14 10:29	
Decachlorobiphenyl [2]	80.2	30-150						2/28/14 10:29	
Tetrachloro-m-xylene [1]	95.2	30-150						2/28/14 10:29	
Tetrachloro-m-xylene [2]	88.0	30-150						2/28/14 10:29	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-5N-45E

Sampled: 2/26/2014 11:15

Sample ID: 14B0788-20

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.3		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG

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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-15N-5E

Sampled: 2/26/2014 11:20

Sample ID: 14B0788-21

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 5:30	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 5:30	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 5:30	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 5:30	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 5:30	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 5:30	JMB
Aroclor-1260 [2]	0.75	0.11	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 5:30	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 5:30	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/14	2/28/14 5:30	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.6	30-150						2/28/14 5:30	
Decachlorobiphenyl [2]	94.3	30-150						2/28/14 5:30	
Tetrachloro-m-xylene [1]	92.4	30-150						2/28/14 5:30	
Tetrachloro-m-xylene [2]	84.5	30-150						2/28/14 5:30	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-15N-5E

Sampled: 2/26/2014 11:20

Sample ID: 14B0788-21

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.2		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-15N-15E

Sampled: 2/26/2014 11:25

Sample ID: 14B0788-22

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:41	JMB
Aroclor-1221 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:41	JMB
Aroclor-1232 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:41	JMB
Aroclor-1242 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:41	JMB
Aroclor-1248 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:41	JMB
Aroclor-1254 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:41	JMB
Aroclor-1260 [2]	0.062	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:41	JMB
Aroclor-1262 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:41	JMB
Aroclor-1268 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:41	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	62.2	30-150						2/27/14 22:41	
Decachlorobiphenyl [2]	70.9	30-150						2/27/14 22:41	
Tetrachloro-m-xylene [1]	81.9	30-150						2/27/14 22:41	
Tetrachloro-m-xylene [2]	78.1	30-150						2/27/14 22:41	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-15N-15E

Sampled: 2/26/2014 11:25

Sample ID: 14B0788-22

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.1		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-15N-25E

Sampled: 2/26/2014 11:30

Sample ID: 14B0788-23

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:54	JMB
Aroclor-1221 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:54	JMB
Aroclor-1232 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:54	JMB
Aroclor-1242 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:54	JMB
Aroclor-1248 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:54	JMB
Aroclor-1254 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:54	JMB
Aroclor-1260 [2]	0.094	0.026	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:54	JMB
Aroclor-1262 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:54	JMB
Aroclor-1268 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 22:54	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	66.2	30-150							
Decachlorobiphenyl [2]	72.0	30-150							
Tetrachloro-m-xylene [1]	78.9	30-150							
Tetrachloro-m-xylene [2]	74.9	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-15N-25E

Sampled: 2/26/2014 11:30

Sample ID: 14B0788-23

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.1		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-15N-35E

Sampled: 2/26/2014 11:35

Sample ID: 14B0788-24

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:07	JMB
Aroclor-1221 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:07	JMB
Aroclor-1232 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:07	JMB
Aroclor-1242 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:07	JMB
Aroclor-1248 [1]	0.038	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:07	JMB
Aroclor-1254 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:07	JMB
Aroclor-1260 [2]	0.21	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:07	JMB
Aroclor-1262 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:07	JMB
Aroclor-1268 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:07	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	40.8		30-150				2/27/14 23:07		
Decachlorobiphenyl [2]	45.7		30-150				2/27/14 23:07		
Tetrachloro-m-xylene [1]	50.0		30-150				2/27/14 23:07		
Tetrachloro-m-xylene [2]	46.3		30-150				2/27/14 23:07		



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-15N-35E

Sampled: 2/26/2014 11:35

Sample ID: 14B0788-24

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.9		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-15N-45E

Sampled: 2/26/2014 11:40

Sample ID: 14B0788-25

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:20	JMB
Aroclor-1221 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:20	JMB
Aroclor-1232 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:20	JMB
Aroclor-1242 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:20	JMB
Aroclor-1248 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:20	JMB
Aroclor-1254 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:20	JMB
Aroclor-1260 [2]	0.065	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:20	JMB
Aroclor-1262 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:20	JMB
Aroclor-1268 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:20	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	59.7	30-150							
Decachlorobiphenyl [2]	65.6	30-150							
Tetrachloro-m-xylene [1]	77.5	30-150							
Tetrachloro-m-xylene [2]	72.4	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-15N-45E

Sampled: 2/26/2014 11:40

Sample ID: 14B0788-25

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.6		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-25N-5E

Sampled: 2/26/2014 11:45

Sample ID: 14B0788-26

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:33	JMB
Aroclor-1221 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:33	JMB
Aroclor-1232 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:33	JMB
Aroclor-1242 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:33	JMB
Aroclor-1248 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:33	JMB
Aroclor-1254 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:33	JMB
Aroclor-1260 [2]	0.10	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:33	JMB
Aroclor-1262 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:33	JMB
Aroclor-1268 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:33	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	46.5	30-150							
Decachlorobiphenyl [2]	51.5	30-150							
Tetrachloro-m-xylene [1]	69.8	30-150							
Tetrachloro-m-xylene [2]	65.6	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-25N-5E

Sampled: 2/26/2014 11:45

Sample ID: 14B0788-26

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.0		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-25N-15E

Sampled: 2/26/2014 11:50

Sample ID: 14B0788-27

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:46	JMB
Aroclor-1221 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:46	JMB
Aroclor-1232 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:46	JMB
Aroclor-1242 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:46	JMB
Aroclor-1248 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:46	JMB
Aroclor-1254 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:46	JMB
Aroclor-1260 [2]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:46	JMB
Aroclor-1262 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:46	JMB
Aroclor-1268 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:46	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	35.8	30-150							
Decachlorobiphenyl [2]	38.1	30-150							
Tetrachloro-m-xylene [1]	41.2	30-150							
Tetrachloro-m-xylene [2]	38.0	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-25N-15E

Sampled: 2/26/2014 11:50

Sample ID: 14B0788-27

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.7		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG

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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-20N-20E

Sampled: 2/26/2014 11:55

Sample ID: 14B0788-28

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:59	JMB
Aroclor-1221 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:59	JMB
Aroclor-1232 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:59	JMB
Aroclor-1242 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:59	JMB
Aroclor-1248 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:59	JMB
Aroclor-1254 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:59	JMB
Aroclor-1260 [2]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:59	JMB
Aroclor-1262 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:59	JMB
Aroclor-1268 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	2/27/14	2/27/14 23:59	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	57.6	30-150						2/27/14 23:59	
Decachlorobiphenyl [2]	61.8	30-150						2/27/14 23:59	
Tetrachloro-m-xylene [1]	78.4	30-150						2/27/14 23:59	
Tetrachloro-m-xylene [2]	73.9	30-150						2/27/14 23:59	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: SLAB-20N-20E

Sampled: 2/26/2014 11:55

Sample ID: 14B0788-28

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.7		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG

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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Sub Slab Pile 1N

Sampled: 2/26/2014 12:00

Sample ID: 14B0788-29

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/27/14	2/28/14 5:43	JMB
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/27/14	2/28/14 5:43	JMB
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/27/14	2/28/14 5:43	JMB
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/27/14	2/28/14 5:43	JMB
Aroclor-1248 [2]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/27/14	2/28/14 5:43	JMB
Aroclor-1254 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/27/14	2/28/14 5:43	JMB
Aroclor-1260 [2]	6.1	1.1	mg/Kg dry	50		SW-846 8082A	2/27/14	2/28/14 5:43	JMB
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/27/14	2/28/14 5:43	JMB
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	2/27/14	2/28/14 5:43	JMB
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			2/28/14 5:43	
Decachlorobiphenyl [2]	*	30-150			S-01			2/28/14 5:43	
Tetrachloro-m-xylene [1]	*	30-150			S-01			2/28/14 5:43	
Tetrachloro-m-xylene [2]	*	30-150			S-01			2/28/14 5:43	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Sub Slab Pile 1N

Sampled: 2/26/2014 12:00

Sample ID: 14B0788-29

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.4		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG

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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Sub Slab Pile 1S

Sampled: 2/26/2014 12:10

Sample ID: 14B0788-30

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 5:56	JMB
Aroclor-1221 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 5:56	JMB
Aroclor-1232 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 5:56	JMB
Aroclor-1242 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 5:56	JMB
Aroclor-1248 [2]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 5:56	JMB
Aroclor-1254 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 5:56	JMB
Aroclor-1260 [1]	2.3	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 5:56	JMB
Aroclor-1262 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 5:56	JMB
Aroclor-1268 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	2/27/14	2/28/14 5:56	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	87.6	30-150						2/28/14 5:56	
Decachlorobiphenyl [2]	90.5	30-150						2/28/14 5:56	
Tetrachloro-m-xylene [1]	94.8	30-150						2/28/14 5:56	
Tetrachloro-m-xylene [2]	86.6	30-150						2/28/14 5:56	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14B0788

Date Received: 2/27/2014

Field Sample #: Sub Slab Pile 1S

Sampled: 2/26/2014 12:10

Sample ID: 14B0788-30

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.6		% Wt	1		SM 2540G	2/27/14	2/28/14 8:00	MXG



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

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
14B0788-01 [Berm-0N-125E]	B091039	02/27/14
14B0788-02 [Berm-0N-135E]	B091039	02/27/14
14B0788-03 [Berm-0N-145E]	B091039	02/27/14
14B0788-04 [Berm-0N-155E]	B091039	02/27/14
14B0788-05 [Berm-10N-125E]	B091039	02/27/14
14B0788-06 [Berm-10N-135E]	B091039	02/27/14
14B0788-07 [Berm-10N-145E]	B091039	02/27/14
14B0788-08 [Berm-10N-155E]	B091039	02/27/14
14B0788-09 [Berm-5N-122E]	B091039	02/27/14
14B0788-10 [Berm-5N-127E]	B091039	02/27/14
14B0788-11 [Berm-5N-132E]	B091039	02/27/14
14B0788-12 [Berm-5N-137E]	B091039	02/27/14
14B0788-13 [Berm-5N-142E]	B091039	02/27/14
14B0788-14 [Berm-5N-147E]	B091039	02/27/14
14B0788-15 [Berm-5N-152E]	B091039	02/27/14
14B0788-16 [Berm-5N-157E]	B091039	02/27/14
14B0788-17 [SLAB-5N-15E]	B091039	02/27/14
14B0788-18 [SLAB-5N-25E]	B091039	02/27/14
14B0788-19 [SLAB-5N-35E]	B091039	02/27/14
14B0788-20 [SLAB-5N-45E]	B091039	02/27/14
14B0788-21 [SLAB-15N-5E]	B091039	02/27/14
14B0788-22 [SLAB-15N-15E]	B091039	02/27/14
14B0788-23 [SLAB-15N-25E]	B091039	02/27/14
14B0788-24 [SLAB-15N-35E]	B091039	02/27/14
14B0788-25 [SLAB-15N-45E]	B091039	02/27/14
14B0788-26 [SLAB-25N-5E]	B091039	02/27/14
14B0788-27 [SLAB-25N-15E]	B091039	02/27/14
14B0788-28 [SLAB-20N-20E]	B091039	02/27/14
14B0788-29 [Sub Slab Pile 1N]	B091039	02/27/14
14B0788-30 [Sub Slab Pile 1S]	B091039	02/27/14

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14B0788-01 [Berm-0N-125E]	B091012	10.2	10.0	02/27/14
14B0788-02 [Berm-0N-135E]	B091012	10.0	10.0	02/27/14
14B0788-03 [Berm-0N-145E]	B091012	10.1	10.0	02/27/14
14B0788-04 [Berm-0N-155E]	B091012	10.3	10.0	02/27/14
14B0788-05 [Berm-10N-125E]	B091012	10.1	10.0	02/27/14
14B0788-06 [Berm-10N-135E]	B091012	10.1	10.0	02/27/14
14B0788-07 [Berm-10N-145E]	B091012	10.1	10.0	02/27/14
14B0788-08 [Berm-10N-155E]	B091012	10.3	10.0	02/27/14
14B0788-09 [Berm-5N-122E]	B091012	10.0	10.0	02/27/14
14B0788-10 [Berm-5N-127E]	B091012	10.3	10.0	02/27/14
14B0788-11 [Berm-5N-132E]	B091012	10.1	10.0	02/27/14
14B0788-12 [Berm-5N-137E]	B091012	10.2	10.0	02/27/14
14B0788-13 [Berm-5N-142E]	B091012	10.1	10.0	02/27/14
14B0788-14 [Berm-5N-147E]	B091012	10.2	10.0	02/27/14
14B0788-15 [Berm-5N-152E]	B091012	10.3	10.0	02/27/14
14B0788-16 [Berm-5N-157E]	B091012	10.3	10.0	02/27/14
14B0788-17 [SLAB-5N-15E]	B091012	10.2	10.0	02/27/14
14B0788-18 [SLAB-5N-25E]	B091012	10.0	10.0	02/27/14
14B0788-19 [SLAB-5N-35E]	B091012	10.3	10.0	02/27/14
14B0788-20 [SLAB-5N-45E]	B091012	10.2	10.0	02/27/14

Sample Extraction Data**Prep Method: SW-846 3546-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14B0788-21 [SLAB-15N-5E]	B091013	10.3	10.0	02/27/14
14B0788-22 [SLAB-15N-15E]	B091013	10.3	10.0	02/27/14
14B0788-23 [SLAB-15N-25E]	B091013	10.0	10.0	02/27/14
14B0788-24 [SLAB-15N-35E]	B091013	10.2	10.0	02/27/14
14B0788-25 [SLAB-15N-45E]	B091013	10.1	10.0	02/27/14
14B0788-26 [SLAB-25N-5E]	B091013	10.2	10.0	02/27/14
14B0788-27 [SLAB-25N-15E]	B091013	10.3	10.0	02/27/14
14B0788-28 [SLAB-20N-20E]	B091013	10.3	10.0	02/27/14
14B0788-29 [Sub Slab Pile 1N]	B091013	10.3	10.0	02/27/14
14B0788-30 [Sub Slab Pile 1S]	B091013	10.2	10.0	02/27/14

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B091012 - SW-846 3546
Blank (B091012-BLK1)

Prepared & Analyzed: 02/27/14

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.182		mg/Kg wet	0.200		91.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.182		mg/Kg wet	0.200		90.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.200		mg/Kg wet	0.200		99.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.205		mg/Kg wet	0.200		103	30-150			

LCS (B091012-BS1)

Prepared & Analyzed: 02/27/14

Aroclor-1016	0.15	0.10	mg/Kg wet	0.200		75.8	40-140			
Aroclor-1016 [2C]	0.16	0.10	mg/Kg wet	0.200		78.9	40-140			
Aroclor-1260	0.14	0.10	mg/Kg wet	0.200		71.8	40-140			
Aroclor-1260 [2C]	0.14	0.10	mg/Kg wet	0.200		68.9	40-140			
Surrogate: Decachlorobiphenyl	0.129		mg/Kg wet	0.200		64.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.133		mg/Kg wet	0.200		66.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.143		mg/Kg wet	0.200		71.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.149		mg/Kg wet	0.200		74.3	30-150			

LCS Dup (B091012-BSD1)

Prepared & Analyzed: 02/27/14

Aroclor-1016	0.18	0.10	mg/Kg wet	0.200		92.0	40-140	19.3	30	
Aroclor-1016 [2C]	0.19	0.10	mg/Kg wet	0.200		96.4	40-140	20.0	30	
Aroclor-1260	0.18	0.10	mg/Kg wet	0.200		87.9	40-140	20.1	30	
Aroclor-1260 [2C]	0.17	0.10	mg/Kg wet	0.200		83.1	40-140	18.8	30	
Surrogate: Decachlorobiphenyl	0.161		mg/Kg wet	0.200		80.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.164		mg/Kg wet	0.200		82.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.166		mg/Kg wet	0.200		83.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.176		mg/Kg wet	0.200		88.1	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B091012 - SW-846 3546

Matrix Spike (B091012-MS1)		Source: 14B0788-20		Prepared: 02/27/14 Analyzed: 02/28/14						
Aroclor-1016	0.17	0.022	mg/Kg dry	0.222	ND	77.2	40-140			
Aroclor-1016 [2C]	0.18	0.022	mg/Kg dry	0.222	ND	81.8	40-140			
Aroclor-1260	2.8	0.022	mg/Kg dry	0.222	1.8	467 *	40-140			MS-19, R-06
Aroclor-1260 [2C]	2.6	0.022	mg/Kg dry	0.222	1.7	395 *	40-140			MS-19, R-06
Surrogate: Decachlorobiphenyl	0.169		mg/Kg dry	0.222		76.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.169		mg/Kg dry	0.222		76.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.159		mg/Kg dry	0.222		71.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.167		mg/Kg dry	0.222		75.1	30-150			

Matrix Spike Dup (B091012-MSD1)		Source: 14B0788-20		Prepared: 02/27/14 Analyzed: 02/28/14						
Aroclor-1016	0.19	0.022	mg/Kg dry	0.222	ND	83.7	40-140	8.11	30	
Aroclor-1016 [2C]	0.20	0.022	mg/Kg dry	0.222	ND	89.9	40-140	9.43	30	
Aroclor-1260	4.7	0.022	mg/Kg dry	0.222	1.8	1320 *	40-140	50.7 *	30	R-06, MS-19
Aroclor-1260 [2C]	4.4	0.022	mg/Kg dry	0.222	1.7	1190 *	40-140	50.5 *	30	R-06, MS-19
Surrogate: Decachlorobiphenyl	0.176		mg/Kg dry	0.222		79.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.178		mg/Kg dry	0.222		80.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.181		mg/Kg dry	0.222		81.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.188		mg/Kg dry	0.222		84.7	30-150			

Batch B091013 - SW-846 3546

Blank (B091013-BLK1)		Prepared & Analyzed: 02/27/14								
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.169		mg/Kg wet	0.200		84.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.164		mg/Kg wet	0.200		82.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.183		mg/Kg wet	0.200		91.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.173		mg/Kg wet	0.200		86.7	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B091013 - SW-846 3546										
LCS (B091013-BS1)				Prepared & Analyzed: 02/27/14						
Aroclor-1016	0.17	0.10	mg/Kg wet	0.200		83.2	40-140			
Aroclor-1016 [2C]	0.17	0.10	mg/Kg wet	0.200		86.6	40-140			
Aroclor-1260	0.16	0.10	mg/Kg wet	0.200		81.5	40-140			
Aroclor-1260 [2C]	0.16	0.10	mg/Kg wet	0.200		78.1	40-140			
Surrogate: Decachlorobiphenyl	0.148		mg/Kg wet	0.200		73.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.137		mg/Kg wet	0.200		68.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.161		mg/Kg wet	0.200		80.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.147		mg/Kg wet	0.200		73.5	30-150			
LCS Dup (B091013-BSD1)				Prepared & Analyzed: 02/27/14						
Aroclor-1016	0.17	0.10	mg/Kg wet	0.200		87.0	40-140	4.46	30	
Aroclor-1016 [2C]	0.18	0.10	mg/Kg wet	0.200		91.0	40-140	4.98	30	
Aroclor-1260	0.17	0.10	mg/Kg wet	0.200		85.2	40-140	4.55	30	
Aroclor-1260 [2C]	0.16	0.10	mg/Kg wet	0.200		81.5	40-140	4.30	30	
Surrogate: Decachlorobiphenyl	0.149		mg/Kg wet	0.200		74.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.140		mg/Kg wet	0.200		70.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.158		mg/Kg wet	0.200		79.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.145		mg/Kg wet	0.200		72.4	30-150			
Matrix Spike (B091013-MS1)				Source: 14B0788-30		Prepared: 02/27/14 Analyzed: 02/28/14				
Aroclor-1016	0.18	0.022	mg/Kg dry	0.222	ND	82.7	40-140			
Aroclor-1016 [2C]	0.18	0.022	mg/Kg dry	0.222	ND	80.0	40-140			
Aroclor-1260	5.9	0.022	mg/Kg dry	0.222	2.3	1630 *	40-140			MS-19, R-06
Aroclor-1260 [2C]	6.7	0.022	mg/Kg dry	0.222	2.2	2000 *	40-140			MS-19, R-06
Surrogate: Decachlorobiphenyl	0.100		mg/Kg dry	0.222		45.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.111		mg/Kg dry	0.222		50.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.118		mg/Kg dry	0.222		53.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.112		mg/Kg dry	0.222		50.4	30-150			
Matrix Spike Dup (B091013-MSD1)				Source: 14B0788-30		Prepared: 02/27/14 Analyzed: 02/28/14				
Aroclor-1016	0.19	0.022	mg/Kg dry	0.224	ND	85.7	40-140	4.46	30	
Aroclor-1016 [2C]	0.19	0.022	mg/Kg dry	0.224	ND	83.6	40-140	5.48	30	
Aroclor-1260	1.5	0.022	mg/Kg dry	0.224	2.3	-339 *	40-140	119 *	30	R-06, MS-19
Aroclor-1260 [2C]	1.6	0.022	mg/Kg dry	0.224	2.2	-274 *	40-140	123 *	30	R-06, MS-19
Surrogate: Decachlorobiphenyl	0.129		mg/Kg dry	0.224		57.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.142		mg/Kg dry	0.224		63.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.148		mg/Kg dry	0.224		66.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.138		mg/Kg dry	0.224		61.7	30-150			



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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B091039 - % Solids

Duplicate (B091039-DUP1)		Source: 14B0788-30		Prepared: 02/27/14 Analyzed: 02/28/14						
% Solids	88.1		% Wt		87.6			0.569	20	
Duplicate (B091039-DUP2)		Source: 14B0788-15		Prepared: 02/27/14 Analyzed: 02/28/14						
% Solids	86.3		% Wt		85.0			1.52	20	
Duplicate (B091039-DUP3)		Source: 14B0788-01		Prepared: 02/27/14 Analyzed: 02/28/14						
% Solids	85.0		% Wt		84.2			0.946	20	

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
O-03	Sample contains two incompletely resolved aroclors. Aroclor with the closest matching pattern is reported.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

CERTIFICATIONS

Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

CHAIN OF CUSTODY RECORD

14B0788

Page 1 of 2

Project Address

N°

Page 73 of 77 14B0788_2 Contest_Final 02 28 14 1527

Project Number: 32927/005

Site and Location: 5140 Conventions Dr., Westville

Materials:

S = Soil

AQ = Water

A = Air Bu - Bulk

W = Waste

BI = Biogas

OW = Only Waste

O = Other

Contact Name:

Kevin Sullivan

Contact Email:

Kevin.Sullivan@WSP.com

Sample Name:

Kevin Sullivan

Sample's Signature:

Kevin Sullivan

Sample Identification:

Beam 014-125E

Beam 014-135E

Beam 014-145E

Beam 014-155E

Beam 014-165E

Beam 014-175E

Beam 014-185E

Beam 014-195E

Beam 014-205E

Beam 014-215E

Beam 014-225E

Beam 014-235E

Beam 014-245E

Beam 014-255E

Beam 014-265E

Beam 014-275E

Beam 014-285E

Beam 014-295E

Beam 014-305E

Beam 014-315E

Beam 014-325E

Beam 014-335E

Beam 014-345E

Beam 014-355E

Beam 014-365E

Beam 014-375E

Beam 014-385E

Beam 014-395E

Beam 014-405E

Beam 014-415E

Beam 014-425E

Beam 014-435E

Beam 014-445E

Beam 014-455E

Beam 014-465E

Beam 014-475E

Beam 014-485E

Beam 014-495E

Beam 014-505E

Beam 014-515E

Beam 014-525E

Beam 014-535E

Beam 014-545E

Beam 014-555E

Beam 014-565E

Beam 014-575E

Beam 014-585E

Beam 014-595E

Beam 014-605E

Beam 014-615E

Beam 014-625E

Beam 014-635E

Beam 014-645E

Beam 014-655E

Beam 014-665E

Beam 014-675E

Beam 014-685E

Beam 014-695E

Beam 014-705E

Beam 014-715E

Beam 014-725E

Beam 014-735E

Beam 014-745E

Beam 014-755E

Beam 014-765E

Beam 014-775E

Beam 014-785E

Beam 014-795E

Beam 014-805E

Beam 014-815E

Beam 014-825E

Beam 014-835E

Beam 014-845E

Beam 014-855E

Beam 014-865E

Beam 014-875E

Beam 014-885E

Beam 014-895E

Beam 014-905E

Beam 014-915E

Beam 014-925E

Beam 014-935E

Beam 014-945E

Beam 014-955E

Beam 014-965E

Beam 014-975E

Beam 014-985E

Beam 014-995E

Beam 014-1005E

Beam 014-1015E

Beam 014-1025E

Beam 014-1035E

Beam 014-1045E

Beam 014-1055E

Beam 014-1065E

Beam 014-1075E

Beam 014-1085E

Beam 014-1095E

Beam 014-1105E

Beam 014-1115E

Beam 014-1125E

Beam 014-1135E

Beam 014-1145E

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Beam 014-1195E

Beam 014-1205E

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Beam 014-1905E

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Beam 014-1955E

Beam 014-1965E

Beam 014-1975E

Beam 014-1985E

Beam 014-1995E

Beam 014-2005E

Beam 014-2015E

Beam 014-2025E

Beam 014-2035E

Beam 014-2045E

Beam 014-2055E

Beam 014-2065E

Beam 014-2075E

Beam 014-2085E

Beam 014-2095E

Beam 014-2105E

Beam 014-2115E

Beam 014-2125E

Beam 014-2135E

Beam 014-2145E

Beam 014-2155E

Beam 014-2165E

Beam 014-2175E

Beam 014-2185E

Beam 014-2195E

Beam 014-2205E

Beam 014-2215E

Beam 014-2225E

Beam 014-2235E

Beam 014-2245E

Beam 014-2255E

Beam 014-2265E

Beam 014-2275E

Beam 014-2285E

Beam 014-2295E

Beam 014-2305E

Beam 014-2315E

Beam 014-2325E

Beam 014-2335E

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Beam 014-2625E

Beam 014-2635E

Beam 014-2645E

Beam 014-2655E

Beam 014-2665E

Beam 014-2675E

Beam 014-2685E

Beam 014-2695E

Beam 014-2705E

Beam 014-2715E

Beam 014-2725E

Beam 014-2735E

Beam 014-2745E

Beam 014-2755E

Beam 014-2765E

Beam 014-2775E

Beam 014-2785E

Beam 014-2795E

Beam 014-2805E

Beam 014-2815E

Beam 014-2825E

Beam 014-2835E

Beam 014-2845E

Beam 014-2855E

Beam 014-2865E

Beam 014-2875E

Beam 014-2885E

Beam 014-2895E

Beam 014-2905E

Beam 014-2915E

Beam 014-2925E

Beam 014-2935E

Beam 014-2945E

Beam 014-2955E

Beam 014-2965E

Beam 014-2975E

Beam 014-2985E

Beam 014-2995E

Beam 014-3005E

Beam 014-3015E

Beam 014-3025E

CHAIN OF CUSTODY RECORD

14B0788

Page 2 of 2

Revised 1/2007

Project Number: 30927 Site and Location:

Contact Name:

Contact Email:

Sample Name:

Sample's Signature:

Kevin Sullivan

Sample Identification:

SLAB 5N-15E

SLAB 5N-25E

SLAB 5N-35E

SLAB 5N-45E

SLAB 5N-5E

SLAB 15N-15E

SLAB 15N-25E

SLAB 15N-35E

SLAB 15N-45E

SLAB 25N-15E

SLAB 25N-20E

SUBSLAB 1N

SUBSLAB 15

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

Matrix:
S = Soil
Aq = Water
A = Air Bu = Bulk
W = Wipe
BI = Blob
OW = Clay Waste
O = Other

Number of Containers

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

N°

Remarks

-17

-18

-19

-20

-21

-22

-23

-24

-25

-26

-27

-28

-29

-30

Reinforced by (Signature):

Date: 2/26/14

Received by (Signature):

Date: 2/27/14

Tracking Number:

Method of Shipment:

Laboratory Name:

Laboratory Location:

Custody Seal Numbers:

Method of Shipment:


WSP
 WSP Environment & Energy

- ☐ Reston Office: 11190 Sunrise Valley Dr., #300, Reston, VA 20191 / Tel: 703-709-6500
☐ Pittsburgh Office: 750 Holiday Dr., #410, Pittsburgh, PA 15220 / Tel: 412-604-1040
☐ San Jose Office: 2035 Gateway Place, #435, San Jose, CA 95110 / Tel: 408-453 6100
☐ New Jersey Office: 200 Cultural Ln., Somerset, NJ 08873 / Tel: 732-564-0888
- ☐ Denver Office: 4600 South Ute, #930, Denver, CO 80237 / Tel: 303-850-9200
☐ Minneapolis Office: 123 North 3rd St., #808, Minneapolis, MN 55401 / Tel: 612-343-0510
☐ Western Office: 300 Trade Center, Suite 4600, Woburn, MA 01801
☒ Cazenovia Office: 5 Sullivan St., Cazenovia, NY 13035 / Tel: 315-655-3900



804244897831

Ship IP Update
Wed 2/26/2014 5:17 pm
EAST LONGMEADOW, MA, US



Delivered

Signature not required

Actual delivery
Thur 2/27/2014 9:44 am
EAST LONGMEADOW, MA, US

Travel History

Date/Time	Activity	Location
2/27/2014 - Thursday		
9:44 am	Delivered	EAST LONGMEADOW, MA
8:01 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:16 am	At local FedEx facility	WINDSOR LOCKS, CT
5:14 am	At destination sort facility	EAST LONGMEADOW, MA
4:47 am	Departed FedEx location	WINDSOR LOCKS, CT
12:05 am	Arrived at FedEx location	WINDSOR LOCKS, CT
2/26/2014 - Wednesday		
5:17 pm	Picked up	GREENSBORO, NC

Local Scan Time

Shipment Facts

Tracking number	804244897831	Service	FedEx Priority Overnight
Weight	18 lbs	Dimensions	22x16x14 in
Delivered To	Shipping/Receiving	Total pieces	1
Total shipment weight	18 lbs / 8.2 kgs	Shipper reference	80
Packaging	Your Packaging	Special handling section	Deliver Weekday

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Page 1 of 2

Sample Receipt Checklist

CLIENT NAME: WSP RECEIVED BY: CEC DATE: 2/27/14

1) Was the chain(s) of custody relinquished and signed?

Yes ☒ No ☐ No CoC Included

2) Does the chain agree with the samples?

Yes ☒ No ☐

If not, explain:

3) Are all the samples in good condition?

Yes ☒ No ☐

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes ☒ No ☐ N/A

Temperature °C by Temp blank 2.0 Temperature °C by Temp gun _____

5) Are there Dissolved samples for the lab to filter?

Yes ☐ No ☒

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes ☒ No ☐

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	<u>30</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Doc# 277 # Bisulfate _____ # DI Water _____

Rev. 4 August 2013 # Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	NA	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements?

Date/Time:

Doc #277 Rev. 4 August 2013

Log-In Technician Initials:

Date/Time:

CEC

2/27/14

March 4, 2014

Dave Bouchard
WSP
5 Sullivan Street
Cazenovia, NY 13035

Project Location: 5140 Site - Yorkville, NY
Client Job Number:
Project Number: 0032927/005
Laboratory Work Order Number: 14C0012

Enclosed are results of analyses for samples received by the laboratory on March 3, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Aaron L. Benoit
Project Manager

WSP
5 Sullivan Street
Cazenovia, NY 13035
ATTN: Dave Bouchard

REPORT DATE: 3/4/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 0032927/005

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14C0012

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

PROJECT LOCATION: 5140 Site - Yorkville, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Berm-0N-195E	14C0012-01	Soil		SM 2540G SW-846 8082A	
Berm-10N-195E	14C0012-02	Soil		SM 2540G SW-846 8082A	
Berm-5N-197E	14C0012-03	Soil		SM 2540G SW-846 8082A	
Berm-5N-192E	14C0012-04	Soil		SM 2540G SW-846 8082A	
Berm-5N-200E	14C0012-05	Soil		SM 2540G SW-846 8082A	
Exc-0N-6E-7ft	14C0012-06	Soil		SM 2540G SW-846 8082A	
Exc-0N-6E-13ft	14C0012-07	Soil		SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

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

SW-846 8082A

Qualifications:

Sample fingerprint does not match standard exactly. Sample was quantitated against the closest matching standard.

Analyte & Samples(s) Qualified:

Aroclor-1242, Aroclor-1242 [2C]

14C0012-04[Berm-5N-192E]

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

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



Daren J. Damboragian
Laboratory Manager

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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0012

Date Received: 3/3/2014

Field Sample #: Berm-0N-195E

Sampled: 2/26/2014 16:00

Sample ID: 14C0012-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 14:41	MJC
Aroclor-1221 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 14:41	MJC
Aroclor-1232 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 14:41	MJC
Aroclor-1242 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 14:41	MJC
Aroclor-1248 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 14:41	MJC
Aroclor-1254 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 14:41	MJC
Aroclor-1260 [2]	0.064	0.025	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 14:41	MJC
Aroclor-1262 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 14:41	MJC
Aroclor-1268 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 14:41	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	84.8	30-150							
Decachlorobiphenyl [2]	81.4	30-150							
Tetrachloro-m-xylene [1]	78.4	30-150							
Tetrachloro-m-xylene [2]	80.2	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0012

Date Received: 3/3/2014

Field Sample #: Berm-0N-195E

Sampled: 2/26/2014 16:00

Sample ID: 14C0012-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.0		% Wt	1		SM 2540G	3/3/14	3/4/14 7:07	DMP

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0012

Date Received: 3/3/2014

Field Sample #: Berm-10N-195E

Sampled: 2/26/2014 16:10

Sample ID: 14C0012-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 14:54	MJC
Aroclor-1221 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 14:54	MJC
Aroclor-1232 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 14:54	MJC
Aroclor-1242 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 14:54	MJC
Aroclor-1248 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 14:54	MJC
Aroclor-1254 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 14:54	MJC
Aroclor-1260 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 14:54	MJC
Aroclor-1262 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 14:54	MJC
Aroclor-1268 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 14:54	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	66.2	30-150							
Decachlorobiphenyl [2]	66.1	30-150							
Tetrachloro-m-xylene [1]	54.5	30-150							
Tetrachloro-m-xylene [2]	56.8	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0012

Date Received: 3/3/2014

Field Sample #: Berm-10N-195E

Sampled: 2/26/2014 16:10

Sample ID: 14C0012-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.8		% Wt	1		SM 2540G	3/3/14	3/4/14 7:07	DMP

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0012

Date Received: 3/3/2014

Field Sample #: Berm-5N-197E

Sampled: 2/26/2014 16:30

Sample ID: 14C0012-03

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 9:26	MJC
Aroclor-1221 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 9:26	MJC
Aroclor-1232 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 9:26	MJC
Aroclor-1242 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 9:26	MJC
Aroclor-1248 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 9:26	MJC
Aroclor-1254 [1]	0.30	0.24	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 9:26	MJC
Aroclor-1260 [1]	1.0	0.24	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 9:26	MJC
Aroclor-1262 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 9:26	MJC
Aroclor-1268 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 9:26	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	104	30-150						3/4/14 9:26	
Decachlorobiphenyl [2]	104	30-150						3/4/14 9:26	
Tetrachloro-m-xylene [1]	98.8	30-150						3/4/14 9:26	
Tetrachloro-m-xylene [2]	101	30-150						3/4/14 9:26	



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Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0012

Date Received: 3/3/2014

Field Sample #: Berm-5N-197E

Sampled: 2/26/2014 16:30

Sample ID: 14C0012-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.4		% Wt	1		SM 2540G	3/3/14	3/4/14 7:07	DMP

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0012

Date Received: 3/3/2014

Field Sample #: Berm-5N-192E

Sampled: 2/26/2014 16:20

Sample ID: 14C0012-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 7:02	MJC
Aroclor-1221 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 7:02	MJC
Aroclor-1232 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 7:02	MJC
Aroclor-1242 [1]	1.2	0.23	mg/Kg dry	10	O-04	SW-846 8082A	3/3/14	3/4/14 7:02	MJC
Aroclor-1248 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 7:02	MJC
Aroclor-1254 [2]	1.0	0.23	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 7:02	MJC
Aroclor-1260 [1]	1.4	0.23	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 7:02	MJC
Aroclor-1262 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 7:02	MJC
Aroclor-1268 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 7:02	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	107	30-150						3/4/14 7:02	
Decachlorobiphenyl [2]	111	30-150						3/4/14 7:02	
Tetrachloro-m-xylene [1]	90.6	30-150						3/4/14 7:02	
Tetrachloro-m-xylene [2]	92.9	30-150						3/4/14 7:02	



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Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0012

Date Received: 3/3/2014

Field Sample #: Berm-5N-192E

Sampled: 2/26/2014 16:20

Sample ID: 14C0012-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.9		% Wt	1		SM 2540G	3/3/14	3/4/14 7:07	DMP

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0012

Date Received: 3/3/2014

Field Sample #: Berm-5N-200E

Sampled: 2/26/2014 16:40

Sample ID: 14C0012-05

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 15:31	MJC
Aroclor-1221 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 15:31	MJC
Aroclor-1232 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 15:31	MJC
Aroclor-1242 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 15:31	MJC
Aroclor-1248 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 15:31	MJC
Aroclor-1254 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 15:31	MJC
Aroclor-1260 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 15:31	MJC
Aroclor-1262 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 15:31	MJC
Aroclor-1268 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	3/3/14	3/3/14 15:31	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	89.7	30-150							
Decachlorobiphenyl [2]	90.2	30-150							
Tetrachloro-m-xylene [1]	86.3	30-150							
Tetrachloro-m-xylene [2]	88.3	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0012

Date Received: 3/3/2014

Field Sample #: Berm-5N-200E

Sampled: 2/26/2014 16:40

Sample ID: 14C0012-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.3		% Wt	1		SM 2540G	3/3/14	3/4/14 7:07	DMP

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0012

Date Received: 3/3/2014

Field Sample #: Exc-0N-6E-7ft

Sampled: 2/27/2014 10:45

Sample ID: 14C0012-06

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 7:15	MJC
Aroclor-1221 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 7:15	MJC
Aroclor-1232 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 7:15	MJC
Aroclor-1242 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 7:15	MJC
Aroclor-1248 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 7:15	MJC
Aroclor-1254 [1]	0.59	0.23	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 7:15	MJC
Aroclor-1260 [1]	1.5	0.23	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 7:15	MJC
Aroclor-1262 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 7:15	MJC
Aroclor-1268 [1]	ND	0.23	mg/Kg dry	10		SW-846 8082A	3/3/14	3/4/14 7:15	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	98.3	30-150						3/4/14 7:15	
Decachlorobiphenyl [2]	93.4	30-150						3/4/14 7:15	
Tetrachloro-m-xylene [1]	86.0	30-150						3/4/14 7:15	
Tetrachloro-m-xylene [2]	88.4	30-150						3/4/14 7:15	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0012

Date Received: 3/3/2014

Field Sample #: Exc-0N-6E-7ft

Sampled: 2/27/2014 10:45

Sample ID: 14C0012-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.4		% Wt	1		SM 2540G	3/3/14	3/4/14 7:07	DMP

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0012

Date Received: 3/3/2014

Field Sample #: Exc-0N-6E-13ft

Sampled: 2/27/2014 13:30

Sample ID: 14C0012-07

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	3/3/14	3/4/14 7:27	MJC
Aroclor-1221 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	3/3/14	3/4/14 7:27	MJC
Aroclor-1232 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	3/3/14	3/4/14 7:27	MJC
Aroclor-1242 [2]	0.46	0.46	mg/Kg dry	20		SW-846 8082A	3/3/14	3/4/14 7:27	MJC
Aroclor-1248 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	3/3/14	3/4/14 7:27	MJC
Aroclor-1254 [1]	1.5	0.46	mg/Kg dry	20		SW-846 8082A	3/3/14	3/4/14 7:27	MJC
Aroclor-1260 [1]	4.1	0.46	mg/Kg dry	20		SW-846 8082A	3/3/14	3/4/14 7:27	MJC
Aroclor-1262 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	3/3/14	3/4/14 7:27	MJC
Aroclor-1268 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	3/3/14	3/4/14 7:27	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	103	30-150						3/4/14 7:27	
Decachlorobiphenyl [2]	124	30-150						3/4/14 7:27	
Tetrachloro-m-xylene [1]	85.2	30-150						3/4/14 7:27	
Tetrachloro-m-xylene [2]	92.9	30-150						3/4/14 7:27	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0012

Date Received: 3/3/2014

Field Sample #: Exc-0N-6E-13ft

Sampled: 2/27/2014 13:30

Sample ID: 14C0012-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.1		% Wt	1		SM 2540G	3/3/14	3/4/14 7:07	DMP

Sample Extraction Data**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
14C0012-01 [Berm-0N-195E]	B091172	03/03/14
14C0012-02 [Berm-10N-195E]	B091172	03/03/14
14C0012-03 [Berm-5N-197E]	B091172	03/03/14
14C0012-04 [Berm-5N-192E]	B091172	03/03/14
14C0012-05 [Berm-5N-200E]	B091172	03/03/14
14C0012-06 [Exc-0N-6E-7ft]	B091172	03/03/14
14C0012-07 [Exc-0N-6E-13ft]	B091172	03/03/14

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14C0012-01 [Berm-0N-195E]	B091165	10.0	10.0	03/03/14
14C0012-02 [Berm-10N-195E]	B091165	10.0	10.0	03/03/14
14C0012-03 [Berm-5N-197E]	B091165	10.0	10.0	03/03/14
14C0012-04 [Berm-5N-192E]	B091165	10.1	10.0	03/03/14
14C0012-05 [Berm-5N-200E]	B091165	10.0	10.0	03/03/14
14C0012-06 [Exc-0N-6E-7ft]	B091165	10.1	10.0	03/03/14
14C0012-07 [Exc-0N-6E-13ft]	B091165	10.0	10.0	03/03/14

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B091165 - SW-846 3546
Blank (B091165-BLK1)

Prepared & Analyzed: 03/03/14

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.211		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.209		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene	0.192		mg/Kg wet	0.200		95.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.196		mg/Kg wet	0.200		98.1	30-150			

LCS (B091165-BS1)

Prepared & Analyzed: 03/03/14

Aroclor-1016	0.20	0.10	mg/Kg wet	0.200		98.2	40-140			
Aroclor-1016 [2C]	0.20	0.10	mg/Kg wet	0.200		102	40-140			
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		100	40-140			
Aroclor-1260 [2C]	0.19	0.10	mg/Kg wet	0.200		94.8	40-140			
Surrogate: Decachlorobiphenyl	0.205		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.207		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	0.194		mg/Kg wet	0.200		96.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.203		mg/Kg wet	0.200		102	30-150			

LCS Dup (B091165-BSD1)

Prepared & Analyzed: 03/03/14

Aroclor-1016	0.19	0.10	mg/Kg wet	0.200		96.4	40-140	1.79	30	
Aroclor-1016 [2C]	0.20	0.10	mg/Kg wet	0.200		100	40-140	1.86	30	
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		99.3	40-140	1.03	30	
Aroclor-1260 [2C]	0.19	0.10	mg/Kg wet	0.200		95.4	40-140	0.633	30	
Surrogate: Decachlorobiphenyl	0.198		mg/Kg wet	0.200		99.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.199		mg/Kg wet	0.200		99.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.184		mg/Kg wet	0.200		92.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.194		mg/Kg wet	0.200		96.9	30-150			

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B091172 - % Solids

Duplicate (B091172-DUP1)

Source: 14C0012-01

Prepared: 03/03/14 Analyzed: 03/04/14

% Solids	81.3		% Wt		80.0			1.61	20	

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
O-04	Sample fingerprint does not match standard exactly. Sample was quantitated against the closest matching standard.

CERTIFICATIONS

Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

IMPORTANT!

Delays are anticipated in AL, FL and LA during Mardi Gras. Learn More



804786097120

Ship (Est.) date

Thur 2/27/2014 4:45 pm

CAZ US



Delivered

Delivered by 11:00 AM

Actual delivery

Mon 3/03/2014 9:09 am

MA US

Travel History

Date/Time	Activity	Location
3/03/2014 - Monday		
9:09 am	Delivered	MA
7:29 am	On FedEx vehicle for delivery	WINSTON LOCKS, CT
3/01/2014 - Saturday		
7:04 pm	At local FedEx facility	WINSTON LOCKS, CT
4:25 am	At destination sort facility	FAIR HAVEN, CT
2/28/2014 - Friday		
11:15 pm	Departed FedEx location	ELIZABETH, NJ
2/27/2014 - Thursday		
7:30 pm	Left FedEx origin facility	ORISKANY, NY
4:45 pm	Picked up	ORISKANY, NY

Local Scan Time

Shipment Facts

Tracking number	804786097120	Service	FedEx Priority Overnight
Signature services	Direct Signature required	Delivered To	Shipping-Receiver
Total pieces	1	Shipper reference	00329270025
Packaging	Your Packaging	Special handling section	Deliver Weekday Direct Signature Required

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Page 1 of 2

Sample Receipt Checklist

CLIENT NAME: WSP

RECEIVED BY: CEC

DATE: 3/3/14

1) Was the chain(s) of custody relinquished and signed?

Yes ☒ No ☐ No CoC Included

2) Does the chain agree with the samples?

Yes ☒ No ☐

If not, explain:

3) Are all the samples in good condition?

Yes ☒ No ☐

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes ☒ No ☐ N/A

Temperature °C by Temp blank 2.0 Temperature °C by Temp gun

5) Are there Dissolved samples for the lab to filter?

Yes ☐ No ☒

Who was notified Date Time

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes ☐ No ☒

Who was notified RJ Date 3/3/14 Time 0930

7) Location where samples are stored:

19

Permission to subcontract samples? Yes ☐ No ☒
(Walk-in clients only) if not already approved
Client Signature:

8) Do all samples have the proper Acid pH: Yes ☐ No ☒ N/A

9) Do all samples have the proper Base pH: Yes ☐ No ☒ N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes ☐ No ☒ N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	<u>7</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl # Methanol

Doc# 277 # Bisulfate # DI Water

Rev. 4 August 2013 # Thiosulfate Unpreserved

Time and Date Frozen:

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	NA	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements?

Date/Time:

Doc #277 Rev. 4 August 2013

Log-In Technician Initials:

Date/Time:

CEC

3/3/14

March 5, 2014

Dave Bouchard
WSP
5 Sullivan Street
Cazenovia, NY 13035

Project Location: 5140 Site - Yorkville, NY
Client Job Number:
Project Number: 0032927/005
Laboratory Work Order Number: 14C0059

Enclosed are results of analyses for samples received by the laboratory on March 4, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", followed by a horizontal line.

Aaron L. Benoit
Project Manager

WSP
5 Sullivan Street
Cazenovia, NY 13035
ATTN: Dave Bouchard

REPORT DATE: 3/5/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 0032927/005

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14C0059

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

PROJECT LOCATION: 5140 Site - Yorkville, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
EXC ON-25E	14C0059-01	Soil		SM 2540G SW-846 8082A	
EXC 5S-25E	14C0059-02	Soil		SM 2540G SW-846 8082A	
EXC 5N-25E	14C0059-03	Soil		SM 2540G SW-846 8082A	
EXC 0N-35E	14C0059-04	Soil		SM 2540G SW-846 8082A	
EXC 5S-35E	14C0059-05	Soil		SM 2540G SW-846 8082A	
EXC 5N-35E	14C0059-06	Soil		SM 2540G SW-846 8082A	
EXC 0N-45E	14C0059-07	Soil		SM 2540G SW-846 8082A	
EXC 5S-45E	14C0059-08	Soil		SM 2540G SW-846 8082A	
EXC 5N-45E	14C0059-09	Soil		SM 2540G SW-846 8082A	
EXC 0N-53E	14C0059-10	Soil		SM 2540G SW-846 8082A	
EXC 0N-73E	14C0059-11	Soil		SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

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

SW-846 8082A

Qualifications:

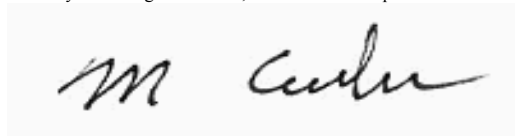
The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]
14C0059-01[EXC ON-25E], 14C0059-05[EXC 5S-35E], 14C0059-07[EXC ON-45E]

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

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



Michael A. Erickson
Laboratory Director

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0059

Date Received: 3/4/2014

Field Sample #: EXC ON-25E

Sampled: 2/28/2014 14:00

Sample ID: 14C0059-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	3/4/14	3/5/14 5:58	JMB
Aroclor-1221 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	3/4/14	3/5/14 5:58	JMB
Aroclor-1232 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	3/4/14	3/5/14 5:58	JMB
Aroclor-1242 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	3/4/14	3/5/14 5:58	JMB
Aroclor-1248 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	3/4/14	3/5/14 5:58	JMB
Aroclor-1254 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	3/4/14	3/5/14 5:58	JMB
Aroclor-1260 [2]	81	11	mg/Kg dry	500		SW-846 8082A	3/4/14	3/5/14 5:58	JMB
Aroclor-1262 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	3/4/14	3/5/14 5:58	JMB
Aroclor-1268 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	3/4/14	3/5/14 5:58	JMB
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			3/5/14 5:58	
Decachlorobiphenyl [2]	*	30-150			S-01			3/5/14 5:58	
Tetrachloro-m-xylene [1]	*	30-150			S-01			3/5/14 5:58	
Tetrachloro-m-xylene [2]	*	30-150			S-01			3/5/14 5:58	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0059

Date Received: 3/4/2014

Field Sample #: EXC ON-25E

Sampled: 2/28/2014 14:00

Sample ID: 14C0059-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.4		% Wt	1		SM 2540G	3/4/14	3/5/14 7:16	DMP

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Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0059

Date Received: 3/4/2014

Field Sample #: EXC 5S-25E

Sampled: 2/28/2014 14:10

Sample ID: 14C0059-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 4:33	JMB
Aroclor-1221 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 4:33	JMB
Aroclor-1232 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 4:33	JMB
Aroclor-1242 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 4:33	JMB
Aroclor-1248 [1]	0.090	0.024	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 4:33	JMB
Aroclor-1254 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 4:33	JMB
Aroclor-1260 [2]	0.23	0.024	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 4:33	JMB
Aroclor-1262 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 4:33	JMB
Aroclor-1268 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 4:33	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	66.7	30-150						3/5/14 4:33	
Decachlorobiphenyl [2]	83.5	30-150						3/5/14 4:33	
Tetrachloro-m-xylene [1]	84.7	30-150						3/5/14 4:33	
Tetrachloro-m-xylene [2]	94.9	30-150						3/5/14 4:33	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0059

Date Received: 3/4/2014

Field Sample #: EXC 5S-25E

Sampled: 2/28/2014 14:10

Sample ID: 14C0059-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9		% Wt	1		SM 2540G	3/4/14	3/5/14 7:16	DMP

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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0059

Date Received: 3/4/2014

Field Sample #: EXC 5N-25E

Sampled: 2/28/2014 14:20

Sample ID: 14C0059-03

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 4:46	JMB
Aroclor-1221 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 4:46	JMB
Aroclor-1232 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 4:46	JMB
Aroclor-1242 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 4:46	JMB
Aroclor-1248 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 4:46	JMB
Aroclor-1254 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 4:46	JMB
Aroclor-1260 [2]	0.041	0.023	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 4:46	JMB
Aroclor-1262 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 4:46	JMB
Aroclor-1268 [1]	ND	0.023	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 4:46	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.7	30-150						3/5/14 4:46	
Decachlorobiphenyl [2]	110	30-150						3/5/14 4:46	
Tetrachloro-m-xylene [1]	88.9	30-150						3/5/14 4:46	
Tetrachloro-m-xylene [2]	100	30-150						3/5/14 4:46	



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Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0059

Date Received: 3/4/2014

Field Sample #: EXC 5N-25E

Sampled: 2/28/2014 14:20

Sample ID: 14C0059-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.7		% Wt	1		SM 2540G	3/4/14	3/5/14 7:16	DMP

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0059

Date Received: 3/4/2014

Field Sample #: EXC 0N-35E

Sampled: 3/3/2014 13:45

Sample ID: 14C0059-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	3/4/14	3/5/14 1:47	JMB
Aroclor-1221 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	3/4/14	3/5/14 1:47	JMB
Aroclor-1232 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	3/4/14	3/5/14 1:47	JMB
Aroclor-1242 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	3/4/14	3/5/14 1:47	JMB
Aroclor-1248 [2]	ND	0.24	mg/Kg dry	10		SW-846 8082A	3/4/14	3/5/14 1:47	JMB
Aroclor-1254 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	3/4/14	3/5/14 1:47	JMB
Aroclor-1260 [2]	1.2	0.24	mg/Kg dry	10		SW-846 8082A	3/4/14	3/5/14 1:47	JMB
Aroclor-1262 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	3/4/14	3/5/14 1:47	JMB
Aroclor-1268 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	3/4/14	3/5/14 1:47	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.9	30-150						3/5/14 1:47	
Decachlorobiphenyl [2]	99.8	30-150						3/5/14 1:47	
Tetrachloro-m-xylene [1]	97.8	30-150						3/5/14 1:47	
Tetrachloro-m-xylene [2]	102	30-150						3/5/14 1:47	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0059

Date Received: 3/4/2014

Field Sample #: EXC 0N-35E

Sampled: 3/3/2014 13:45

Sample ID: 14C0059-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.8		% Wt	1		SM 2540G	3/4/14	3/5/14 7:16	DMP

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0059

Date Received: 3/4/2014

Field Sample #: EXC 5S-35E

Sampled: 3/3/2014 14:00

Sample ID: 14C0059-05

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	99	mg/Kg dry	4000		SW-846 8082A	3/4/14	3/5/14 7:02	JMB
Aroclor-1221 [1]	ND	99	mg/Kg dry	4000		SW-846 8082A	3/4/14	3/5/14 7:02	JMB
Aroclor-1232 [1]	ND	99	mg/Kg dry	4000		SW-846 8082A	3/4/14	3/5/14 7:02	JMB
Aroclor-1242 [1]	ND	99	mg/Kg dry	4000		SW-846 8082A	3/4/14	3/5/14 7:02	JMB
Aroclor-1248 [1]	830	99	mg/Kg dry	4000		SW-846 8082A	3/4/14	3/5/14 7:02	JMB
Aroclor-1254 [1]	ND	99	mg/Kg dry	4000		SW-846 8082A	3/4/14	3/5/14 7:02	JMB
Aroclor-1260 [2]	370	99	mg/Kg dry	4000		SW-846 8082A	3/4/14	3/5/14 7:02	JMB
Aroclor-1262 [1]	ND	99	mg/Kg dry	4000		SW-846 8082A	3/4/14	3/5/14 7:02	JMB
Aroclor-1268 [1]	ND	99	mg/Kg dry	4000		SW-846 8082A	3/4/14	3/5/14 7:02	JMB
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			3/5/14 7:02	
Decachlorobiphenyl [2]	*	30-150			S-01			3/5/14 7:02	
Tetrachloro-m-xylene [1]	*	30-150			S-01			3/5/14 7:02	
Tetrachloro-m-xylene [2]	*	30-150			S-01			3/5/14 7:02	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0059

Date Received: 3/4/2014

Field Sample #: EXC 5S-35E

Sampled: 3/3/2014 14:00

Sample ID: 14C0059-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.2		% Wt	1		SM 2540G	3/4/14	3/5/14 7:16	DMP

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0059

Date Received: 3/4/2014

Field Sample #: EXC 5N-35E

Sampled: 3/3/2014 14:05

Sample ID: 14C0059-06

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 5:33	JMB
Aroclor-1221 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 5:33	JMB
Aroclor-1232 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 5:33	JMB
Aroclor-1242 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 5:33	JMB
Aroclor-1248 [1]	0.048	0.025	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 5:33	JMB
Aroclor-1254 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 5:33	JMB
Aroclor-1260 [2]	0.029	0.025	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 5:33	JMB
Aroclor-1262 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 5:33	JMB
Aroclor-1268 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 5:33	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.0	30-150						3/5/14 5:33	
Decachlorobiphenyl [2]	108	30-150						3/5/14 5:33	
Tetrachloro-m-xylene [1]	86.6	30-150						3/5/14 5:33	
Tetrachloro-m-xylene [2]	97.4	30-150						3/5/14 5:33	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0059

Date Received: 3/4/2014

Field Sample #: EXC 5N-35E

Sampled: 3/3/2014 14:05

Sample ID: 14C0059-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.0		% Wt	1		SM 2540G	3/4/14	3/5/14 7:16	DMP

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0059

Date Received: 3/4/2014

Field Sample #: EXC 0N-45E

Sampled: 3/3/2014 14:10

Sample ID: 14C0059-07

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	3/4/14	3/5/14 5:45	JMB
Aroclor-1221 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	3/4/14	3/5/14 5:45	JMB
Aroclor-1232 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	3/4/14	3/5/14 5:45	JMB
Aroclor-1242 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	3/4/14	3/5/14 5:45	JMB
Aroclor-1248 [2]	3.0	1.2	mg/Kg dry	50		SW-846 8082A	3/4/14	3/5/14 5:45	JMB
Aroclor-1254 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	3/4/14	3/5/14 5:45	JMB
Aroclor-1260 [2]	4.4	1.2	mg/Kg dry	50		SW-846 8082A	3/4/14	3/5/14 5:45	JMB
Aroclor-1262 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	3/4/14	3/5/14 5:45	JMB
Aroclor-1268 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	3/4/14	3/5/14 5:45	JMB
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			3/5/14 5:45	
Decachlorobiphenyl [2]	*	30-150			S-01			3/5/14 5:45	
Tetrachloro-m-xylene [1]	*	30-150			S-01			3/5/14 5:45	
Tetrachloro-m-xylene [2]	*	30-150			S-01			3/5/14 5:45	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0059

Date Received: 3/4/2014

Field Sample #: EXC 0N-45E

Sampled: 3/3/2014 14:10

Sample ID: 14C0059-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.2		% Wt	1		SM 2540G	3/4/14	3/5/14 7:16	DMP

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0059

Date Received: 3/4/2014

Field Sample #: EXC 5S-45E

Sampled: 3/3/2014 14:20

Sample ID: 14C0059-08

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	3/4/14	3/5/14 2:38	JMB
Aroclor-1221 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	3/4/14	3/5/14 2:38	JMB
Aroclor-1232 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	3/4/14	3/5/14 2:38	JMB
Aroclor-1242 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	3/4/14	3/5/14 2:38	JMB
Aroclor-1248 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	3/4/14	3/5/14 2:38	JMB
Aroclor-1254 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	3/4/14	3/5/14 2:38	JMB
Aroclor-1260 [2]	2.2	0.24	mg/Kg dry	10		SW-846 8082A	3/4/14	3/5/14 2:38	JMB
Aroclor-1262 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	3/4/14	3/5/14 2:38	JMB
Aroclor-1268 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	3/4/14	3/5/14 2:38	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.8	30-150						3/5/14 2:38	
Decachlorobiphenyl [2]	100	30-150						3/5/14 2:38	
Tetrachloro-m-xylene [1]	80.0	30-150						3/5/14 2:38	
Tetrachloro-m-xylene [2]	88.5	30-150						3/5/14 2:38	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0059

Date Received: 3/4/2014

Field Sample #: EXC 5S-45E

Sampled: 3/3/2014 14:20

Sample ID: 14C0059-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.0		% Wt	1		SM 2540G	3/4/14	3/5/14 7:16	DMP

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0059

Date Received: 3/4/2014

Field Sample #: EXC 5N-45E

Sampled: 3/3/2014 14:30

Sample ID: 14C0059-09

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:11	JMB
Aroclor-1221 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:11	JMB
Aroclor-1232 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:11	JMB
Aroclor-1242 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:11	JMB
Aroclor-1248 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:11	JMB
Aroclor-1254 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:11	JMB
Aroclor-1260 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:11	JMB
Aroclor-1262 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:11	JMB
Aroclor-1268 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:11	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	83.3	30-150							
Decachlorobiphenyl [2]	105	30-150							
Tetrachloro-m-xylene [1]	85.1	30-150							
Tetrachloro-m-xylene [2]	96.7	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0059

Date Received: 3/4/2014

Field Sample #: EXC 5N-45E

Sampled: 3/3/2014 14:30

Sample ID: 14C0059-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.5		% Wt	1		SM 2540G	3/4/14	3/5/14 7:16	DMP

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0059

Date Received: 3/4/2014

Field Sample #: EXC 0N-53E

Sampled: 3/3/2014 15:00

Sample ID: 14C0059-10

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:24	JMB
Aroclor-1221 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:24	JMB
Aroclor-1232 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:24	JMB
Aroclor-1242 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:24	JMB
Aroclor-1248 [1]	0.049	0.026	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:24	JMB
Aroclor-1254 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:24	JMB
Aroclor-1260 [1]	0.16	0.026	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:24	JMB
Aroclor-1262 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:24	JMB
Aroclor-1268 [1]	ND	0.026	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:24	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.0	30-150							
Decachlorobiphenyl [2]	112	30-150							
Tetrachloro-m-xylene [1]	88.4	30-150							
Tetrachloro-m-xylene [2]	100	30-150							



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0059

Date Received: 3/4/2014

Field Sample #: EXC 0N-53E

Sampled: 3/3/2014 15:00

Sample ID: 14C0059-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.7		% Wt	1		SM 2540G	3/4/14	3/5/14 7:16	DMP

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0059

Date Received: 3/4/2014

Field Sample #: EXC 0N-73E

Sampled: 3/3/2014 15:20

Sample ID: 14C0059-11

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:37	JMB
Aroclor-1221 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:37	JMB
Aroclor-1232 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:37	JMB
Aroclor-1242 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:37	JMB
Aroclor-1248 [1]	0.043	0.025	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:37	JMB
Aroclor-1254 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:37	JMB
Aroclor-1260 [1]	0.12	0.025	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:37	JMB
Aroclor-1262 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:37	JMB
Aroclor-1268 [1]	ND	0.025	mg/Kg dry	1		SW-846 8082A	3/4/14	3/5/14 6:37	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.5	30-150						3/5/14 6:37	
Decachlorobiphenyl [2]	106	30-150						3/5/14 6:37	
Tetrachloro-m-xylene [1]	88.8	30-150						3/5/14 6:37	
Tetrachloro-m-xylene [2]	101	30-150						3/5/14 6:37	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0059

Date Received: 3/4/2014

Field Sample #: EXC 0N-73E

Sampled: 3/3/2014 15:20

Sample ID: 14C0059-11

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.6		% Wt	1		SM 2540G	3/4/14	3/5/14 7:16	DMP

Sample Extraction Data**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
14C0059-01 [EXC ON-25E]	B091255	03/04/14
14C0059-02 [EXC 5S-25E]	B091255	03/04/14
14C0059-03 [EXC 5N-25E]	B091255	03/04/14
14C0059-04 [EXC 0N-35E]	B091255	03/04/14
14C0059-05 [EXC 5S-35E]	B091255	03/04/14
14C0059-06 [EXC 5N-35E]	B091255	03/04/14
14C0059-07 [EXC 0N-45E]	B091255	03/04/14
14C0059-08 [EXC 5S-45E]	B091255	03/04/14
14C0059-09 [EXC 5N-45E]	B091255	03/04/14
14C0059-10 [EXC 0N-53E]	B091255	03/04/14
14C0059-11 [EXC 0N-73E]	B091255	03/04/14

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14C0059-01 [EXC ON-25E]	B091248	10.1	10.0	03/04/14
14C0059-02 [EXC 5S-25E]	B091248	10.1	10.0	03/04/14
14C0059-03 [EXC 5N-25E]	B091248	10.0	10.0	03/04/14
14C0059-04 [EXC 0N-35E]	B091248	10.0	10.0	03/04/14
14C0059-05 [EXC 5S-35E]	B091248	10.0	10.0	03/04/14
14C0059-06 [EXC 5N-35E]	B091248	10.0	10.0	03/04/14
14C0059-07 [EXC 0N-45E]	B091248	10.1	10.0	03/04/14
14C0059-08 [EXC 5S-45E]	B091248	10.0	10.0	03/04/14
14C0059-09 [EXC 5N-45E]	B091248	10.1	10.0	03/04/14
14C0059-10 [EXC 0N-53E]	B091248	10.0	10.0	03/04/14
14C0059-11 [EXC 0N-73E]	B091248	10.0	10.0	03/04/14

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B091248 - SW-846 3546
Blank (B091248-BLK1)

Prepared & Analyzed: 03/04/14

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.192		mg/Kg wet	0.200		95.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.225		mg/Kg wet	0.200		113	30-150			
Surrogate: Tetrachloro-m-xylene	0.180		mg/Kg wet	0.200		90.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.205		mg/Kg wet	0.200		102	30-150			

LCS (B091248-BS1)

Prepared & Analyzed: 03/04/14

Aroclor-1016	0.20	0.10	mg/Kg wet	0.200		102	40-140			
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		112	40-140			
Aroclor-1260	0.21	0.10	mg/Kg wet	0.200		104	40-140			
Aroclor-1260 [2C]	0.23	0.10	mg/Kg wet	0.200		113	40-140			
Surrogate: Decachlorobiphenyl	0.207		mg/Kg wet	0.200		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.222		mg/Kg wet	0.200		111	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.214		mg/Kg wet	0.200		107	30-150			

LCS Dup (B091248-BSD1)

Prepared & Analyzed: 03/04/14

Aroclor-1016	0.21	0.10	mg/Kg wet	0.200		105	40-140	1.99	30	
Aroclor-1016 [2C]	0.23	0.10	mg/Kg wet	0.200		115	40-140	2.15	30	
Aroclor-1260	0.21	0.10	mg/Kg wet	0.200		106	40-140	2.47	30	
Aroclor-1260 [2C]	0.23	0.10	mg/Kg wet	0.200		116	40-140	2.42	30	
Surrogate: Decachlorobiphenyl	0.208		mg/Kg wet	0.200		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.223		mg/Kg wet	0.200		111	30-150			
Surrogate: Tetrachloro-m-xylene	0.201		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.211		mg/Kg wet	0.200		106	30-150			

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B091255 - % Solids

Duplicate (B091255-DUP1)		Source: 14C0059-02		Prepared: 03/04/14 Analyzed: 03/05/14						
% Solids	87.7		% Wt		83.9			4.43	20	
Duplicate (B091255-DUP2)		Source: 14C0059-01		Prepared: 03/04/14 Analyzed: 03/05/14						
% Solids	82.9		% Wt		87.4			5.28	20	

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

CERTIFICATIONS

Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

CHAIN OF CUSTODY RECORD

Page 31 of 34

Project Number: 32927/005 Site and Location: 5140 Commonwealth Ave., Yonkers

14C0059

Contact Name: David Boucard Contact Email: David.Boucard@WSP.com
 Sample Name: Lead, Silver Sample's Signature: [Signature]

Matrix:
 S = Soil
 Aq = Water
 A = Air Bo = Bulk
 W = Wipe
 Bn = Bone
 CW = Clay Waste
 O = Other

Sample Identification: Exc ON - 25E Depth: 13ft Date: 2/20/14 Time: 1400 Matrix: S

Number of Containers: 1

PCB 8082

Remarks: High Conc. at Pcs

02 Exc SS - 25E 6 2/20/14 1400 S 1 X WSD - Low Pcs

03 Exc SN - 25E 6 2/20/14 1400 S 1 X "

04 Exc ON - 35E 12 3/3/14 1345 S 1 X Locality High

05 Exc SS - 35E 6 1400 S 1 X WSD - Low Pcs

06 Exc SN - 35E 6 1405 S 1 X "

07 Exc ON - 45E 12 1400 S 1 X WSD - Low Pcs

08 Exc SS - 45E 6 1400 S 1 X "

09 Exc SN - 45E 6 1430 S 1 X "

10 Exc ON - 53E 6 1500 S 1 X "

11 Exc ON - 73E 6 1520 S 1 X "

Retrieved by (Signature): [Signature] Date: 2/21/14 Received by (Signature): [Signature] Date: 3-4-14
 Laboratory Name: Con-Test Analytical Lab
 Laboratory Location: East Longmeadow, MA
 Custody Seal Numbers: 1202A

Turn-Around Time: 24-48 hrs Tracking Number: 1202A

Method of Shipment: 1202A



WSP Environment & Energy

Reception Office: 11190 Sunrise Valley Dr., #300, Reston, VA 20191 / Tel: 703-709-6500
 Pittsburgh Office: 750 Holiday Dr., #410, Pittsburgh, PA 15220 / Tel: 412-604-1040
 San Jose Office: 2025 Gateway Place, #435, San Jose, CA 95131 / Tel: 408-453-6100
 New Jersey Office: 200 Centennial Ln., Somerset, NJ 08873 / Tel: 732-564-0888
 Denver Office: 4600 South Ulster, #930, Denver, CO 80237 / Tel: 303-850-9200
 Minneapolis Office: 123 North 3rd St., #408, Minneapolis, MN 55401 / Tel: 612-343-4510
 Woburn Office: 300 Trade Center, Suite 4600, Woburn, MA 01801
 Cazenovia Office: 5 Sullivan St., Cazenovia, NY 13035 / Tel: 315-655-3900

IMPORTANT!A winter storm is causing delays and disruptions in the eastern U.S. [Learn More](#)**804786097082**

Ship (R/U) date
Mon 3/03/2014 3:47 pm
 MA US



Delivered
 Ship (R/U) date

Actual delivery
Tues 3/04/2014 10:12 am
 MA US

Travel History

Date/Time	Activity	Location
- 3/04/2014 - Tuesday		
10:12 am	Delivered	MA
8:01 am	On FedEx vehicle for delivery	NEWTON, MA 02459
7:01 am	Arrived FedEx facility	NEWTON, MA 02459
3:29 am	Departed FedEx location	NEWTON, MA
- 3/03/2014 - Monday		
11:06 pm	Arrived at FedEx location	NEWTON, MA
6:57 pm	Left FedEx origin facility	NEWTON, MA
4:47 pm	Picked up	NEWTON, MA

Local Scan Time

Shipment Facts

Tracking number	804786097082	Service	FedEx Priority Overnight
Dimensions	21x14x14 in	Delivered To	Receptionist Front Desk
Total pieces	1	Packaging	YOUR Packaging
Special handling section	Deliver Weekday		

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Page 1 of 2

Sample Receipt Checklist

CLIENT NAME: WSP RECEIVED BY: PB DATE: 3-4-14

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
2) Does the chain agree with the samples? Yes No
If not, explain:
3) Are all the samples in good condition? Yes No
If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒
Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank 2.0 Temperature °C by Temp gun _____

5) Are there Dissolved samples for the lab to filter?

Who was notified _____ Date _____ Time _____ Yes No

6) Are there any RUSH or SHORT HOLDING TIME samples?

Who was notified Richard Date _____ Time _____ Yes No

7) Location where samples are stored:

Login

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz <u>amber</u> /clear jar	<u>11</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Collisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Time and Date Frozen:

Doc# 2/7 # Bisulfate _____ # DI Water _____

Rev. 4 August 2013 # Thiosulfate _____ Unpreserved _____

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	TA	

Who notified of False statements?

Date/Time:

Doc #277 Rev. 4 August 2013

Log-In Technician Initials: JB

Date/Time: 3.4.14

March 11, 2014

Dave Bouchard
WSP
5 Sullivan Street
Cazenovia, NY 13035

Project Location: 5140 Site - Yorkville, NY
Client Job Number:
Project Number: 0032927/005
Laboratory Work Order Number: 14C0173

Enclosed are results of analyses for samples received by the laboratory on March 7, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Aaron L. Benoit
Project Manager



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

WSP
5 Sullivan Street
Cazenovia, NY 13035
ATTN: Dave Bouchard

REPORT DATE: 3/11/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 0032927/005

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14C0173

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

PROJECT LOCATION: 5140 Site - Yorkville, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
EXC ON-25E (South)	14C0173-01	Soil		SM 2540G SW-846 8082A	
EXC 8S-35E	14C0173-02	Soil		SM 2540G SW-846 8082A	
EXC 54N-35E	14C0173-03	Soil		SM 2540G SW-846 8082A	
Slab 25N-25E	14C0173-04	Soil		SM 2540G SW-846 8082A	
Slab 25N-35E	14C0173-05	Soil		SM 2540G SW-846 8082A	
Slab 25N-45E	14C0173-06	Soil		SM 2540G SW-846 8082A	
Slab 35N-45E	14C0173-07	Soil		SM 2540G SW-846 8082A	
Slab 35N-35E	14C0173-08	Soil		SM 2540G SW-846 8082A	
Slab 35N-70E	14C0173-09	Soil		SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

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

REVISED REPORT 03/11/2014: Report revised for incorrect sample IDs listed for samples 14C0173-07 through 14C0173-09.

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

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

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", is written over a horizontal line.

Aaron L. Benoit
Project Chemist

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0173

Date Received: 3/7/2014

Field Sample #: EXC ON-25E (South)

Sampled: 3/6/2014 13:15

Sample ID: 14C0173-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 0:38	MJC
Aroclor-1221 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 0:38	MJC
Aroclor-1232 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 0:38	MJC
Aroclor-1242 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 0:38	MJC
Aroclor-1248 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 0:38	MJC
Aroclor-1254 [2]	0.026	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 0:38	MJC
Aroclor-1260 [1]	0.14	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 0:38	MJC
Aroclor-1262 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 0:38	MJC
Aroclor-1268 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 0:38	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	110	30-150						3/8/14 0:38	
Decachlorobiphenyl [2]	104	30-150						3/8/14 0:38	
Tetrachloro-m-xylene [1]	109	30-150						3/8/14 0:38	
Tetrachloro-m-xylene [2]	105	30-150						3/8/14 0:38	



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Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0173

Date Received: 3/7/2014

Field Sample #: EXC ON-25E (South)

Sampled: 3/6/2014 13:15

Sample ID: 14C0173-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.8		% Wt	1		SM 2540G	3/8/14	3/10/14 8:44	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0173

Date Received: 3/7/2014

Field Sample #: EXC 8S-35E

Sampled: 3/6/2014 13:30

Sample ID: 14C0173-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 0:50	MJC
Aroclor-1221 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 0:50	MJC
Aroclor-1232 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 0:50	MJC
Aroclor-1242 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 0:50	MJC
Aroclor-1248 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 0:50	MJC
Aroclor-1254 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 0:50	MJC
Aroclor-1260 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 0:50	MJC
Aroclor-1262 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 0:50	MJC
Aroclor-1268 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 0:50	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	130	30-150						3/8/14 0:50	
Decachlorobiphenyl [2]	123	30-150						3/8/14 0:50	
Tetrachloro-m-xylene [1]	124	30-150						3/8/14 0:50	
Tetrachloro-m-xylene [2]	119	30-150						3/8/14 0:50	



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Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0173

Date Received: 3/7/2014

Field Sample #: EXC 8S-35E

Sampled: 3/6/2014 13:30

Sample ID: 14C0173-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.1		% Wt	1		SM 2540G	3/8/14	3/10/14 8:44	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0173

Date Received: 3/7/2014

Field Sample #: EXC 54N-35E

Sampled: 3/6/2014 14:00

Sample ID: 14C0173-03

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:03	MJC
Aroclor-1221 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:03	MJC
Aroclor-1232 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:03	MJC
Aroclor-1242 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:03	MJC
Aroclor-1248 [1]	0.049	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:03	MJC
Aroclor-1254 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:03	MJC
Aroclor-1260 [2]	0.051	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:03	MJC
Aroclor-1262 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:03	MJC
Aroclor-1268 [1]	ND	0.022	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:03	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	112	30-150							
Decachlorobiphenyl [2]	107	30-150							
Tetrachloro-m-xylene [1]	106	30-150							
Tetrachloro-m-xylene [2]	102	30-150							



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Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0173

Date Received: 3/7/2014

Field Sample #: EXC 54N-35E

Sampled: 3/6/2014 14:00

Sample ID: 14C0173-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.0		% Wt	1		SM 2540G	3/8/14	3/10/14 8:44	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0173

Date Received: 3/7/2014

Field Sample #: Slab 25N-25E

Sampled: 3/6/2014 15:05

Sample ID: 14C0173-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:15	MJC
Aroclor-1221 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:15	MJC
Aroclor-1232 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:15	MJC
Aroclor-1242 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:15	MJC
Aroclor-1248 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:15	MJC
Aroclor-1254 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:15	MJC
Aroclor-1260 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:15	MJC
Aroclor-1262 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:15	MJC
Aroclor-1268 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:15	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	116	30-150						3/8/14 1:15	
Decachlorobiphenyl [2]	110	30-150						3/8/14 1:15	
Tetrachloro-m-xylene [1]	110	30-150						3/8/14 1:15	
Tetrachloro-m-xylene [2]	106	30-150						3/8/14 1:15	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0173

Date Received: 3/7/2014

Field Sample #: Slab 25N-25E

Sampled: 3/6/2014 15:05

Sample ID: 14C0173-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.2		% Wt	1		SM 2540G	3/8/14	3/10/14 8:44	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0173

Date Received: 3/7/2014

Field Sample #: Slab 25N-35E

Sampled: 3/6/2014 15:10

Sample ID: 14C0173-05

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:27	MJC
Aroclor-1221 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:27	MJC
Aroclor-1232 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:27	MJC
Aroclor-1242 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:27	MJC
Aroclor-1248 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:27	MJC
Aroclor-1254 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:27	MJC
Aroclor-1260 [2]	0.031	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:27	MJC
Aroclor-1262 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:27	MJC
Aroclor-1268 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:27	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.3	30-150						3/8/14 1:27	
Decachlorobiphenyl [2]	70.5	30-150						3/8/14 1:27	
Tetrachloro-m-xylene [1]	83.8	30-150						3/8/14 1:27	
Tetrachloro-m-xylene [2]	81.5	30-150						3/8/14 1:27	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0173

Date Received: 3/7/2014

Field Sample #: Slab 25N-35E

Sampled: 3/6/2014 15:10

Sample ID: 14C0173-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.2		% Wt	1		SM 2540G	3/8/14	3/10/14 8:44	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0173

Date Received: 3/7/2014

Field Sample #: Slab 25N-45E

Sampled: 3/6/2014 15:15

Sample ID: 14C0173-06

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.020	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:40	MJC
Aroclor-1221 [1]	ND	0.020	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:40	MJC
Aroclor-1232 [1]	ND	0.020	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:40	MJC
Aroclor-1242 [1]	ND	0.020	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:40	MJC
Aroclor-1248 [1]	ND	0.020	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:40	MJC
Aroclor-1254 [1]	ND	0.020	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:40	MJC
Aroclor-1260 [1]	ND	0.020	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:40	MJC
Aroclor-1262 [1]	ND	0.020	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:40	MJC
Aroclor-1268 [1]	ND	0.020	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:40	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	131	30-150						3/8/14 1:40	
Decachlorobiphenyl [2]	124	30-150						3/8/14 1:40	
Tetrachloro-m-xylene [1]	124	30-150						3/8/14 1:40	
Tetrachloro-m-xylene [2]	119	30-150						3/8/14 1:40	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0173

Date Received: 3/7/2014

Field Sample #: Slab 25N-45E

Sampled: 3/6/2014 15:15

Sample ID: 14C0173-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.8		% Wt	1		SM 2540G	3/8/14	3/10/14 8:44	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0173

Date Received: 3/7/2014

Field Sample #: Slab 35N-45E

Sampled: 3/6/2014 15:20

Sample ID: 14C0173-07

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:52	MJC
Aroclor-1221 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:52	MJC
Aroclor-1232 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:52	MJC
Aroclor-1242 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:52	MJC
Aroclor-1248 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:52	MJC
Aroclor-1254 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:52	MJC
Aroclor-1260 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:52	MJC
Aroclor-1262 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:52	MJC
Aroclor-1268 [1]	ND	0.024	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 1:52	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	89.2	30-150						3/8/14 1:52	
Decachlorobiphenyl [2]	85.4	30-150						3/8/14 1:52	
Tetrachloro-m-xylene [1]	89.8	30-150						3/8/14 1:52	
Tetrachloro-m-xylene [2]	86.6	30-150						3/8/14 1:52	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0173

Date Received: 3/7/2014

Field Sample #: Slab 35N-45E

Sampled: 3/6/2014 15:20

Sample ID: 14C0173-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.5		% Wt	1		SM 2540G	3/8/14	3/10/14 8:44	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0173

Date Received: 3/7/2014

Field Sample #: Slab 35N-35E

Sampled: 3/6/2014 15:25

Sample ID: 14C0173-08

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 2:05	MJC
Aroclor-1221 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 2:05	MJC
Aroclor-1232 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 2:05	MJC
Aroclor-1242 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 2:05	MJC
Aroclor-1248 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 2:05	MJC
Aroclor-1254 [1]	0.029	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 2:05	MJC
Aroclor-1260 [1]	0.11	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 2:05	MJC
Aroclor-1262 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 2:05	MJC
Aroclor-1268 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 2:05	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	94.8	30-150						3/8/14 2:05	
Decachlorobiphenyl [2]	90.0	30-150						3/8/14 2:05	
Tetrachloro-m-xylene [1]	97.2	30-150						3/8/14 2:05	
Tetrachloro-m-xylene [2]	93.1	30-150						3/8/14 2:05	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0173

Date Received: 3/7/2014

Field Sample #: Slab 35N-35E

Sampled: 3/6/2014 15:25

Sample ID: 14C0173-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.7		% Wt	1		SM 2540G	3/8/14	3/10/14 8:44	MXG

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0173

Date Received: 3/7/2014

Field Sample #: Slab 35N-70E

Sampled: 3/6/2014 15:30

Sample ID: 14C0173-09

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 2:17	MJC
Aroclor-1221 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 2:17	MJC
Aroclor-1232 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 2:17	MJC
Aroclor-1242 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 2:17	MJC
Aroclor-1248 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 2:17	MJC
Aroclor-1254 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 2:17	MJC
Aroclor-1260 [2]	0.029	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 2:17	MJC
Aroclor-1262 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 2:17	MJC
Aroclor-1268 [1]	ND	0.021	mg/Kg dry	1		SW-846 8082A	3/7/14	3/8/14 2:17	MJC
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	96.9	30-150						3/8/14 2:17	
Decachlorobiphenyl [2]	92.2	30-150						3/8/14 2:17	
Tetrachloro-m-xylene [1]	93.5	30-150						3/8/14 2:17	
Tetrachloro-m-xylene [2]	90.1	30-150						3/8/14 2:17	



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

Project Location: 5140 Site - Yorkville, NY

Sample Description:

Work Order: 14C0173

Date Received: 3/7/2014

Field Sample #: Slab 35N-70E

Sampled: 3/6/2014 15:30

Sample ID: 14C0173-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.1		% Wt	1		SM 2540G	3/8/14	3/10/14 8:44	MXG

Sample Extraction Data**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
14C0173-01 [EXC ON-25E (South)]	B091521	03/08/14
14C0173-02 [EXC 8S-35E]	B091521	03/08/14
14C0173-03 [EXC 54N-35E]	B091521	03/08/14
14C0173-04 [Slab 25N-25E]	B091521	03/08/14
14C0173-05 [Slab 25N-35E]	B091521	03/08/14
14C0173-06 [Slab 25N-45E]	B091521	03/08/14
14C0173-07 [Slab 35N-45E]	B091521	03/08/14
14C0173-08 [Slab 35N-35E]	B091521	03/08/14
14C0173-09 [Slab 35N-70E]	B091521	03/08/14

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14C0173-01 [EXC ON-25E (South)]	B091491	10.5	10.0	03/07/14
14C0173-02 [EXC 8S-35E]	B091491	10.4	10.0	03/07/14
14C0173-03 [EXC 54N-35E]	B091491	10.4	10.0	03/07/14
14C0173-04 [Slab 25N-25E]	B091491	10.3	10.0	03/07/14
14C0173-05 [Slab 25N-35E]	B091491	10.5	10.0	03/07/14
14C0173-06 [Slab 25N-45E]	B091491	10.7	10.0	03/07/14
14C0173-07 [Slab 35N-45E]	B091491	10.4	10.0	03/07/14
14C0173-08 [Slab 35N-35E]	B091491	10.3	10.0	03/07/14
14C0173-09 [Slab 35N-70E]	B091491	10.4	10.0	03/07/14

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B091491 - SW-846 3546
Blank (B091491-BLK1)

Prepared & Analyzed: 03/07/14

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.212		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.201		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.197		mg/Kg wet	0.200		98.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.190		mg/Kg wet	0.200		95.0	30-150			

LCS (B091491-BS1)

Prepared & Analyzed: 03/07/14

Aroclor-1016	0.20	0.10	mg/Kg wet	0.200		102	40-140			
Aroclor-1016 [2C]	0.20	0.10	mg/Kg wet	0.200		102	40-140			
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		100	40-140			
Aroclor-1260 [2C]	0.20	0.10	mg/Kg wet	0.200		97.7	40-140			
Surrogate: Decachlorobiphenyl	0.212		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.205		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.204		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.202		mg/Kg wet	0.200		101	30-150			

LCS Dup (B091491-BSD1)

Prepared & Analyzed: 03/07/14

Aroclor-1016	0.25	0.10	mg/Kg wet	0.200		127	40-140	21.3	30	
Aroclor-1016 [2C]	0.26	0.10	mg/Kg wet	0.200		128	40-140	22.7	30	
Aroclor-1260	0.25	0.10	mg/Kg wet	0.200		125	40-140	22.0	30	
Aroclor-1260 [2C]	0.24	0.10	mg/Kg wet	0.200		122	40-140	22.1	30	
Surrogate: Decachlorobiphenyl	0.264		mg/Kg wet	0.200		132	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.255		mg/Kg wet	0.200		128	30-150			
Surrogate: Tetrachloro-m-xylene	0.258		mg/Kg wet	0.200		129	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.258		mg/Kg wet	0.200		129	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B091491 - SW-846 3546
Matrix Spike (B091491-MS1)
Source: 14C0173-09

Prepared: 03/07/14 Analyzed: 03/08/14

Aroclor-1016	0.18	0.021	mg/Kg dry	0.211	ND	87.1	40-140			
Aroclor-1016 [2C]	0.19	0.021	mg/Kg dry	0.211	ND	89.6	40-140			
Aroclor-1260	0.20	0.021	mg/Kg dry	0.211	0.024	83.8	40-140			
Aroclor-1260 [2C]	0.19	0.021	mg/Kg dry	0.211	0.029	78.5	40-140			
Surrogate: Decachlorobiphenyl	0.230		mg/Kg dry	0.211		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.219		mg/Kg dry	0.211		104	30-150			
Surrogate: Tetrachloro-m-xylene	0.221		mg/Kg dry	0.211		105	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.212		mg/Kg dry	0.211		100	30-150			

Matrix Spike Dup (B091491-MSD1)
Source: 14C0173-09

Prepared: 03/07/14 Analyzed: 03/08/14

Aroclor-1016	0.17	0.021	mg/Kg dry	0.211	ND	81.1	40-140	7.12	30	
Aroclor-1016 [2C]	0.18	0.021	mg/Kg dry	0.211	ND	83.5	40-140	7.09	30	
Aroclor-1260	0.20	0.021	mg/Kg dry	0.211	0.024	81.6	40-140	2.32	30	
Aroclor-1260 [2C]	0.19	0.021	mg/Kg dry	0.211	0.029	76.1	40-140	2.65	30	
Surrogate: Decachlorobiphenyl	0.176		mg/Kg dry	0.211		83.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.167		mg/Kg dry	0.211		79.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.169		mg/Kg dry	0.211		80.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.164		mg/Kg dry	0.211		77.8	30-150			

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

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

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

CERTIFICATIONS

Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

CHAIN OF CUSTODY RECORD

Page 1 of 1

Project Number:

Site and Location:

Matrix:

Revised And/or

No

Page 27 of 30

Contact Name:

Contact Email:

Matrix:

No

Sample Name:

Sample's Signature:

Matrix:

No

Sample Identification:

Depth:

Date:

Time:

Matrix:

Number of Containers:

Remarks:

Exc DN-2SE(South) -01

114

3/6/14

1315

S

1

Could be High Pcs

Exc 8S-3SE

-02

74

1

1330

1

1

Could be High Pcs

Exc 64N-3SE

-03

114

1

1400

1

1

Could be High Pcs

SLAB 25N-2SE

-04

66

1

1505

1

1

SLAB 25N-3SE

-05

1

1

1510

1

1

SLAB 26N-4SE

-06

1

1

1515

1

1

SLAB 35N-4SE

-07

1

1

1520

1

1

SLAB 35N-3SE

-08

1

1

1525

1

1

SLAB 35N-7DE

-09

1

1

1530

1

1

Request

Limit

0.1

mg/kg

(N/A)

Relinquished by (Signature):

3/14/14

1600

Received by (Signature):

3/17/14

Received by (Signature):

2.0

Relinquished by (Signature):

3/17/14

1600

Received by (Signature):

3/17/14

Received by (Signature):

2.0

Relinquished by (Signature):

3/17/14

1600

Received by (Signature):

3/17/14

Received by (Signature):

2.0

Relinquished by (Signature):

3/17/14

1600

Received by (Signature):

3/17/14

Received by (Signature):

2.0

Relinquished by (Signature):

3/17/14

1600

Received by (Signature):

3/17/14

Received by (Signature):

2.0

Relinquished by (Signature):

3/17/14

1600

Received by (Signature):

3/17/14

Received by (Signature):

2.0

Relinquished by (Signature):

3/17/14

1600

Received by (Signature):

3/17/14

Received by (Signature):

2.0

Relinquished by (Signature):

3/17/14

1600

Received by (Signature):

3/17/14

Received by (Signature):

2.0

Relinquished by (Signature):

3/17/14

1600

Received by (Signature):

3/17/14

Received by (Signature):

2.0



Method of Shipment:

Relinquished by (Signature):

Relinquished by (Signature):

IMPORTANT:
FedEx has returned to standard daily operations in the eastern U.S. [Learn More](#)



804786097119

Ship (PCL) only
Thur 3/06/2014 4:59 pm
CAZ US



Delivered
10:00 AM - 10:00 AM

Actual Delivery
Fri 3/07/2014 9:38 am
MA US

Travel History

Date/Time	Activity	Location
3/07/2014 - Friday		
9:38 am	Delivered	MA
7:16 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
6:57 am	At local FedEx facility	WINDSOR LOCKS, CT
3:43 am	Departed FedEx location	NEWARK, NJ
3/06/2014 - Thursday		
11:11 pm	Arrived at FedEx location	NEWARK, NJ
7:18 pm	Left FedEx origin facility	CROSBY, NY
4:59 pm	Picked up	CROSBY, NY
		Local Scan Time

Shipment Facts

Tracking number	804786097119	Service	FedEx Priority Overnight
Dimensions	25x14x14 in.	Signature services	Direct signature required
Delivered To	Receptionist Front Desk	Total pieces	1
Packaging	Your Packaging	Special handling section	Deliver Weekday, Direct Signature Required

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-5405
www.contestlabs.com



Page 1 of 2

Sample Receipt Checklist



CLIENT NAME: WSP RECEIVED BY: CEC DATE: 3/7/14

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples?

If not, explain:

3) Are all the samples in good condition?

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 2.0°C

5) Are there Dissolved samples for the lab to filter?

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples?

Who was notified RJ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	<u>4</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Collisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Time and Date Frozen:

Doc# 277 # Bisulfate _____ # DI Water _____

Rev. 4 August 2013 # Thiosulfate _____ Unpreserved _____

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	NA	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Doc #277 Rev. 4 August 2013

Who notified of False statements?

Log-In Technician Initials:

CEC

Date/Time:

Date/Time:

3/7/14 0938

Appendix B – Data Usability Study Reports

Data Validation Report

**WSP Group
5140 Commercial Dr.
Yorkville, New York**

SDG# 14B0474



ECT.CON INC.

Environmental and Computer
Technology Consultants

115 Riverview Bend South Unit 2144
Palm Coast, FL 32137
Office (386) 283-9360
Cell (724) 288-1971
e-mail: ectconinc@mac.com

DATA VALIDATION REPORT

Project Name: **5140 Commercial Dr. Yorkville, NY**
 SDG #: **14B0474**

 Performed for: **WSP**

 Laboratory: **Con-test Analytical Laboratory**

 Validation Performed by: **ECT.CON INC**
 Validation Guidance: **USEPA CLP National Functional Guidelines for Organic Data Review (NFG)**

 Validation Report Date: **4/24/14**

Samples/Matrix:

	Sample Date	Sample ID	Laboratory ID	Matrix
1	02/18/14	Slab-35N-5E	14B0474-01	Solid
2	02/18/14	Slab-35N-15E	14B0474-02	Solid
3	02/18/14	Slab-35N-25E	14B0474-03	Solid
4	02/18/14	Slab-45N-5E	14B0474-04	Solid
5	02/18/14	Slab-45N-15E	14B0474-05	Solid
6	02/18/14	Slab-45N-25E	14B0474-06	Solid
7	02/18/14	Slab-45N-35E	14B0474-07	Solid
8	02/18/14	Slab-45N-45E	14B0474-08	Solid
9	02/18/14	Slab-55N-5E	14B0474-09	Solid
10	02/18/14	Slab-55N-15E	14B0474-10	Solid
11	02/18/14	Slab-55N-25E	14B0474-11	Solid
12	02/18/14	Slab-55N-35E	14B0474-12	Solid
13	02/18/14	Slab-55N-45E	14B0474-13	Solid

This sample set consists of the following:

Field Samples :	13
Trip Blanks :	0
Equipment Blanks :	0
Field Blanks :	0
Field Duplicates:	0

Analytical data in this report were reviewed to determine analytical limitations of the data based on specific quality control criteria. This review is performed on a laboratory signed data data package. The laboratory signature indicates that the laboratory has reviewed and has certified that the information provided in the data package are correct and complete.

The results of the review are an interpretation of the reported quality control information provided by the laboratory in comparison to the specified validation criteria for the project. Laboratory calculations have been verified as part of the validation. Form 1's and/or analytical results sheets are annotated with the results of the validation.

This evaluation was conducted in accordance with the requested validation guidelines, project requirement and the analytical method. Findings from this validation should be considered when using the analytical data.

The organic findings are based on the validation of the following:

- Sample Preservation
- Holding Times
- Initial Calibration
- Continuing Calibration
- Blanks (lab and field)
- System Monitoring Compounds
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- Laboratory Control Sample (LCS)
- Target Compound Identification
- Compound Quantification and Quantitation Limits
- System Performance

This report consists of the validation findings. This is followed by annotated Form 1's. The final section of the report is supporting documentation. This consists of the Chain of Custody, laboratory case narrative and the validation worksheets.

Project Number: 480-48310-1

Method Number **Description**
 SW-846 8082 Polychlorinated Biphenyls (PCBs)

					PCB
	Sample Date	Sample ID	Laboratory ID	Matrix	8082
1	02/18/14	Slab-35N-5E	14B0474-01	Solid	X
2	02/18/14	Slab-35N-15E	14B0474-02	Solid	X
3	02/18/14	Slab-35N-25E	14B0474-03	Solid	X
4	02/18/14	Slab-45N-5E	14B0474-04	Solid	X
5	02/18/14	Slab-45N-15E	14B0474-05	Solid	X
6	02/18/14	Slab-45N-25E	14B0474-06	Solid	X
7	02/18/14	Slab-45N-35E	14B0474-07	Solid	X
8	02/18/14	Slab-45N-45E	14B0474-08	Solid	X
9	02/18/14	Slab-55N-5E	14B0474-09	Solid	X
10	02/18/14	Slab-55N-15E	14B0474-10	Solid	X
11	02/18/14	Slab-55N-25E	14B0474-11	Solid	X
12	02/18/14	Slab-55N-35E	14B0474-12	Solid	X
13	02/18/14	Slab-55N-45E	14B0474-13	Solid	X

13

FINDINGS

POLYCHLORINATED BIPHENYLS

1. The continuing calibration calibration percent difference (%D) for Aroclor 1260 exceeded the 15% quality control limit on both analytical columns on 2/19/14 at 2340. In the following sample, the positive result for Aroclor 1260 was qualified as estimated, "J."

Slab-35N-5E

NOTES

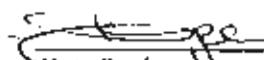
POLYCHLORINATED BIPHENYLS

- A. Surrogate recoveries exceeded the quality control limits in several samples due to the necessary dilution of the sample extract prior to analysis. Data were not qualified on this basis.

Slab-35N-15E	Slab-35N-25E	Slab-45N-5E	Slab-45N-15E
Slab-45N-25E	Slab-45N-35E	Slab-55N-15E	Slab-55N-25E
Slab-55N-35E			

- B. A matrix spike/matrix spike duplicate was not analyzed with this sample set. A laboratory control sample was analyzed and was compliant. Data were not qualified on this basis.
- C. On instrument ECD 9's analytical sequence, standards for Aroclor 1248, 1242, 1232, 1221, 1262, and 1268 are listed as part of the sequence. The quantitation reports for these compounds were not included in the data package. This is noted for completeness only. Data were not qualified on this basis.
- D. On instrument ECD 10's analytical sequence, standards for Aroclor 1242, 1232, 1221, 1262, and 1268 are listed as part of the sequence. The quantitation reports for these compounds were not included in the data package. This is noted for completeness only. Data were not qualified on this basis.
- E. The following samples were analyzed and reported at the listed dilution factors due to the presence of target compounds and/or matrix interferences. Data were not qualified on this basis.

Sample	Lab ID	Dilution
Slab-35N-15E	14B0474-02	50X
Slab-35N-25E	14B0474-03	50X
Slab-45N-5E	14B0474-04	1000X
Slab-45N-15E	14B0474-05	100X
Slab-45N-25E	14B0474-06	1000X
Slab-45N-35E	14B0474-07	1000X
Slab-45N-45E	14B0474-08	10X
Slab-55N-5E	14B0474-09	10X
Slab-55N-15E	14B0474-10	200X
Slab-55N-25E	14B0474-11	1000X
Slab-55N-35E	14B0474-12	1000X
Slab-55N-45E	14B0474-13	10X


Data Reviewer


Date

Glossary of Data Qualifiers

U	Not Detected	The associated number indicates approximate sample concentration necessary to be detected.
UJ	Not Detected	Quantitation limit may be inaccurate or imprecise.
J	Analyte Present	Reported value is an estimated quantity.
N	Consider Present	Tentative identification. Special methods may be needed to confirm its presence or absence in future sampling efforts.
R	Unusable Result	Analyte may or may not be present in the sample.
UR	Unusable Result	Analyte may or may not be present in the sample.



ECT.CON INC.

Environmental and Computer
Technology Consultants

Annotated Form 1's (Spreadsheet)

1 - FORM I

ANALYSIS DATA SHEET

Slab-35N-5E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0474
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14B0474-01 File ID: 10218128.d
 Sampled: 02/18/14 13:30 Prepared: 02/19/14 13:12 Analyzed: 02/19/14 22:14
 Solids: 89.20 Preparation: SW-846 3546 Dilution: 1
 Batch: B090593 Sequence: S005563 Calibration: 1400029 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0070	0.022	
11104-28-2	Aroclor-1221		0.022	0.022	
11141-16-5	Aroclor-1232		0.014	0.022	
53469-21-9	Aroclor-1242		0.011	0.022	
12672-29-6	Aroclor-1248		0.013	0.022	
11097-69-1	Aroclor-1254		0.0096	0.022	
11096-82-5	Aroclor-1260 [2C]	0.17 <i>JS</i>	0.011	0.022	
37324-23-5	Aroclor-1262		0.0092	0.022	
11100-14-4	Aroclor-1268		0.013	0.022	

* Values outside of QC limits

Handwritten signature/initials



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

**1 - FORM I
ANALYSIS DATA SHEET****Slab-35N-15E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0474
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0474-02 File ID: 10220011.d
Sampled: 02/18/14 13:35 Prepared: 02/19/14 13:12 Analyzed: 02/20/14 10:01
Solids: 89.00 Preparation: SW-846 3546 Dilution: 50
Batch: B090593 Sequence: S005564 Calibration: 1400029 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.35	1.1	
11104-28-2	Aroclor-1221		1.1	1.1	
11141-16-5	Aroclor-1232		0.70	1.1	
53469-21-9	Aroclor-1242		0.57	1.1	
12672-29-6	Aroclor-1248		0.65	1.1	
11097-69-1	Aroclor-1254		0.48	1.1	
11096-82-5	Aroclor-1260 [2C]	7.6	0.54	1.1	
37324-23-5	Aroclor-1262		0.46	1.1	
11100-14-4	Aroclor-1268		0.67	1.1	

* Values outside of QC limits

10
2/20/14

1 - FORM I ANALYSIS DATA SHEET

Slab-35N-25E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0474
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0474-03 File ID: 10220012.d
Sampled: 02/18/14 13:40 Prepared: 02/19/14 13:12 Analyzed: 02/20/14 10:13
Solids: 90.10 Preparation: SW-846 3546 Dilution: 50
Batch: B090593 Sequence: S005564 Calibration: 1400029 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.34	1.1	
11104-28-2	Aroclor-1221		1.1	1.1	
11141-16-5	Aroclor-1232		0.67	1.1	
53469-21-9	Aroclor-1242		0.55	1.1	
12672-29-6	Aroclor-1248		0.63	1.1	
11097-69-1	Aroclor-1254		0.47	1.1	
11096-82-5	Aroclor-1260 [2C]	4.4	0.52	1.1	
37324-23-5	Aroclor-1262		0.45	1.1	
11100-14-4	Aroclor-1268		0.65	1.1	

* Values outside of QC limits

1 - FORM I

ANALYSIS DATA SHEET

Slab-45N-5E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0474
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14B0474-04 File ID: J0218161.D
 Sampled: 02/18/14 13:45 Prepared: 02/19/14 13:12 Analyzed: 02/20/14 10:50
 Solids: 86.40 Preparation: SW-846 3546 Dilution: 1000
 Batch: B090593 Sequence: S005565 Calibration: 1400042 Instrument: ECD10

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		7.2	23	
11104-28-2	Aroclor-1221		23	23	
11141-16-5	Aroclor-1232		14	23	
53469-21-9	Aroclor-1242		12	23	
12672-29-6	Aroclor-1248		13	23	
11097-69-1	Aroclor-1254		10	23	
11096-82-5	Aroclor-1260 [2C]	51	11	23	
37324-23-5	Aroclor-1262		9.5	23	
11100-14-4	Aroclor-1268		14	23	

* Values outside of QC limits

 WJ
 4/29/14

1 - FORM I

ANALYSIS DATA SHEET

Slab-45N-15E

Laboratory: Con-Test Analytical Laboratory SDG. 14B0474
 Client: WSP Project 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14B0474-05 File ID: J0218162 D
 Sampled: 02/18/14 13:50 Prepared: 02/19/14 13:12 Analyzed: 02/20/14 11:02
 Solids: 80.20 Preparation: SW-846 3546 Dilution: 100
 Batch: B090593 Sequence: S005565 Calibration: 1400042 Instrument: ECD10

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.77	2.5	
11104-28-2	Aroclor-1221		2.4	2.5	
11141-16-5	Aroclor-1232		1.5	2.5	
53469-21-9	Aroclor-1242		1.3	2.5	
12672-29-6	Aroclor-1248		1.4	2.5	
11097-69-1	Aroclor-1254		1.1	2.5	
11096-82-5	Aroclor-1260 [2C]	9.8	1.2	2.5	
37324-23-5	Aroclor-1262		1.0	2.5	
11100-14-4	Aroclor-1268		1.5	2.5	

* Values outside of QC limits

 44.6
 4/1/2014

1 - FORM I

ANALYSIS DATA SHEET

Slab-45N-25E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0474
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0474-06 File ID: J0218163.D
Sampled: 02/18/14 13:55 Prepared: 02/19/14 13:12 Analyzed: 02/20/14 11:14
Solids: 83.90 Preparation: SW-846 3546 Dilution: 1000
Batch: B090593 Sequence: S005565 Calibration: 1400042 Instrument: ECD10

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		7.2	23	
11104-28-2	Aroclor-1221		23	23	
11141-16-5	Aroclor-1232		14	23	
53469-21-9	Aroclor-1242		12	23	
12672-29-6	Aroclor-1248		14	23	
11097-69-1	Aroclor-1254		10	23	
11096-82-5	Aroclor-1260 [2C]	50	11	23	
37324-23-5	Aroclor-1262		9.6	23	
11100-14-4	Aroclor-1268		14	23	

* Values outside of QC limits

14
4/23/14



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

**1 - FORM I
ANALYSIS DATA SHEET**

Slab-45N-35E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0474
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0474-07 File ID: J0218164.D
Sampled: 02/18/14 14:00 Prepared: 02/19/14 13:12 Analyzed: 02/20/14 11:27
Solids: 866.00 Preparation: SW-846 3546 Dilution: 1000
Batch: B090593 Sequence: S005565 Calibration: 1400042 Instrument: ECD10

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		6.1	20	
11104-28-2	Aroclor-1221		19	20	
11141-16-5	Aroclor-1232		12	20	
53469-21-9	Aroclor-1242		10	20	
12672-29-6	Aroclor-1248		11	20	
11097-69-1	Aroclor-1254		8.5	20	
11096-82-5	Aroclor-1260 (2C)		9.5	20	
37324-23-6	Aroclor-1262		8.1	20	
11100-14-4	Aroclor-1268		12	20	

* Values outside of QC limits



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**1 - FORM I
ANALYSIS DATA SHEET**

Slab-45N-45E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0474
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0474-08 File ID: J0218165.D
Sampled: 02/18/14 14:05 Prepared: 02/19/14 13:12 Analyzed: 02/20/14 11:39
Solids: 91.80 Preparation: SW-846 3546 Dilution: 10
Batch: B090593 Sequence: S005565 Calibration: 1400042 Instrument: ECD10

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.068	0.22	
11104-28-2	Aroclor-1221		0.21	0.22	
11141-16-5	Aroclor-1232		0.14	0.22	
53469-21-9	Aroclor-1242		0.11	0.22	
12672-29-6	Aroclor-1248		0.13	0.22	
11097-69-1	Aroclor-1254		0.094	0.22	
11096-82-5	Aroclor-1260 [2C]	0.52	0.10	0.22	
37324-23-5	Aroclor-1262		0.089	0.22	
11100-14-4	Aroclor-1268		0.13	0.22	

* Values outside of QC limits

15-03-14

1 - FORM I

ANALYSIS DATA SHEET

Slab-55N-5E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0474
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14B0474-09 File ID: J021B166.D
 Sampled: 02/18/14 14:10 Prepared: 02/19/14 13:12 Analyzed: 02/20/14 11:52
 Solids: 89.00 Preparation: SW-846 3546 Dilution: 10
 Batch: B090593 Sequence: S005565 Calibration: 1400042 Instrument: ECD10

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.070	0.22	
11104-28-2	Aroclor-1221		0.22	0.22	
11141-16-5	Aroclor-1232		0.14	0.22	
53469-21-9	Aroclor-1242		0.11	0.22	
12672-29-6	Aroclor-1248		0.13	0.22	
11097-69-1	Aroclor-1254		0.097	0.22	
11096-82-5	Aroclor-1260 [2C]	1.4	0.11	0.22	
37324-23-5	Aroclor-1262		0.092	0.22	
11100-14-4	Aroclor-1268		0.13	0.22	

* Values outside of QC limits

C.C.
4/24/14

1 - FORM I ANALYSIS DATA SHEET

Slab-55N-15E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0474
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0474-10 File ID: J0218167.D
Sampled: 02/18/14 14:15 Prepared: 02/19/14 13:12 Analyzed: 02/20/14 12:04
Solids: 88.80 Preparation: SW-846 3546 Dilution: 200
Batch: B090593 Sequence: S005565 Calibration: 1400042 Instrument: ECD10

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		1.4	4.5	
11104-28-2	Aroclor-1221		4.4	4.5	
11141-16-5	Aroclor-1232		2.8	4.5	
53469-21-9	Aroclor-1242		2.3	4.5	
12672-29-6	Aroclor-1248		2.6	4.5	
11097-69-1	Aroclor-1254		1.9	4.5	
11096-82-5	Aroclor-1260 [2C]	20	2.2	4.5	
37324-23-5	Aroclor-1262		1.8	4.5	
11100-14-4	Aroclor-1268		2.7	4.5	

* Values outside of QC limits

140
4/27/14

1 - FORM I

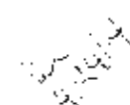
ANALYSIS DATA SHEET

Slab-55N-25E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0474
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0474-11 File ID: J0218168.D
Sampled: 02/18/14 14:20 Prepared: 02/19/14 13:12 Analyzed: 02/20/14 12:17
Solids: 86.90 Preparation: SW-846 3546 Dilution: 1000
Batch: B090693 Sequence: S005565 Calibration: 1400042 Instrument: ECD10

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		7.1	23	
11104-28-2	Aroclor-1221		23	23	
11141-16-5	Aroclor-1232		14	23	
53469-21-9	Aroclor-1242		12	23	
12672-29-6	Aroclor-1248		13	23	
11097-69-1	Aroclor-1254		9.9	23	
11096-82-5	Aroclor-1260 [2C]	59	11	23	
37324-23-5	Aroclor-1262		9.4	23	
11100-14-4	Aroclor-1268		14	23	

* Values outside of QC limits



1 - FORM I

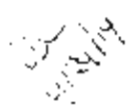
ANALYSIS DATA SHEET

Slab-55N-35E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0474
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14B0474-12 File ID: J0218169.D
 Sampled: 02/18/14 14:25 Prepared: 02/19/14 13:12 Analyzed: 02/20/14 12:29
 Solids: 87.50 Preparation: SW-846 3546 Dilution: 1000
 Batch: B090593 Sequence: S005565 Calibration: 1400042 Instrument: ECD10

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		7.0	23	
11104-28-2	Aroclor-1221		22	23	
11141-16-5	Aroclor-1232		14	23	
53469-21-9	Aroclor-1242		12	23	
12672-29-6	Aroclor-1248		13	23	
11097-69-1	Aroclor-1254		9.7	23	
11096-82-5	Aroclor-1260 (2C)	41	11	23	
37324-23-5	Aroclor-1262		9.3	23	
11100-14-4	Aroclor-1268		14	23	

* Values outside of QC limits



1 - FORM I

ANALYSIS DATA SHEET

Slab-55N-45E

Laboratory: Con-Test Analytical Laboratory SDG. 14B0474
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14B0474-13 File ID: J0218170.D
 Sampled: 02/18/14 14:30 Prepared: 02/19/14 13:12 Analyzed: 02/20/14 12:42
 Solids: 82.40 Preparation: SW-846 3546 Dilution: 10
 Batch: B090593 Sequence: S005565 Calibration: 1400042 Instrument: ECD10

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.075	0.24	
11104-28-2	Aroclor-1221		0.24	0.24	
11141-16-5	Aroclor-1232		0.15	0.24	
53469-21-9	Aroclor-1242		0.12	0.24	
12672-29-6	Aroclor-1248		0.14	0.24	
11097-69-1	Aroclor-1254		0.10	0.24	
11096-82-5	Aroclor-1260 [2C]	1.8	0.12	0.24	
37324-23-5	Aroclor-1262		0.10	0.24	
11100-14-4	Aroclor-1268		0.15	0.24	

* Values outside of QC limits

102
4/24/14



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1 - FORM I
ANALYSIS DATA SHEET

Slab-35N-5E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0474

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0474-01

Sampled: 02/18/14 13:30

% Solids: 89.20

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	89.2			1		B090649	02/20/14 10:47	SM 2540G

14B
0474-01



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1 - FORM I
ANALYSIS DATA SHEET
Slab-35N-15E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0474
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0474-02
Sampled: 02/18/14 13:35
% Solids: 89.00

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	89.0			1		B090649	02/20/14 10.47	SM 2540G



330

24

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**1 - FORM I
ANALYSIS DATA SHEET**

Slab-35N-25E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0474

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0474-03

Sampled: 02/18/14 13:40

% Solids: 90.10

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	90.1			1		B090649	02/20/14 10:47	SM 2540G

330



331

25

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

1 - FORM I
ANALYSIS DATA SHEET
Slab-45N-5E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0474
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0474-04
Sampled: 02/18/14 13:45
% Solids: 86.40

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	86.4			1		B090549	02/20/14 10:47	SM 2540G

3/25/14



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1 - FORM I
ANALYSIS DATA SHEET
Slab-45N-15E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0474

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0474-05

Sampled: 02/18/14 13:50

% Solids: 80.20

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	80.2			1		B090649	02/20/14 10:47	SM 2540G

26



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1 - FORM I
ANALYSIS DATA SHEET
Slab-45N-25E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0474
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0474-06
Sampled: 02/18/14 13:55
% Solids: 83.90

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	83.9			1		B090649	02/20/14 10:47	SM 2540G



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

**1 - FORM I
ANALYSIS DATA SHEET**

Slab-45N-35E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0474

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0474-07

Sampled: 02/18/14 14:00

% Solids 866.00

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	866			t		B090649	02/20/14 10:47	SM 2540G



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1 - FORM I
ANALYSIS DATA SHEET
Slab-45N-45E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0474
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0474-08
Sampled: 02/18/14 14:05
% Solids: 91.80

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	91.8			1		B090649	02/20/14 10:47	SM 2540G

14B0474-08

1 - FORM I
ANALYSIS DATA SHEET
Slab-55N-5E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0474
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0474-09
Sampled: 02/18/14 14:10
% Solids: 89.00

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	89.0			1		B090649	02/20/14 10:47	SM 2540G



337

31

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

1 - FORM I
ANALYSIS DATA SHEET
Slab-55N-15E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0474
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0474-10
Sampled: 02/18/14 14:15
% Solids: 88.80

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	88.8			1		B090649	02/20/14 10:47	SM 2540G

OK
4/12/14



338

32

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-8405 * TEL. 413/525-2332

1 - FORM I
ANALYSIS DATA SHEET
Slab-55N-25E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0474
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0474-11
Sampled: 02/18/14 14:20
% Solids: 86.90

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	86.9			1		B090649	02/20/14 10:47	SM 2540G

100
4/12/14



339

33

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1 - FORM I
ANALYSIS DATA SHEET
Slab-55N-35E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0474

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0474-12

Sampled: 02/18/14 14:25

% Solids: 87.50

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	87.5			1		B090649	02/20/14 10:47	SM 2540G

33



1 - FORM I
ANALYSIS DATA SHEET
Slab-55N-45E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0474

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0474-13

Sampled: 02/18/14 14:30

% Solids: 82.40

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLDS	% Solids	82.4			1		B090649	02/20/14 10:47	SM 2540G



ECT.CON INC.

Environmental and Computer
Technology Consultants

Support Documentation

Laboratory Case Narrative

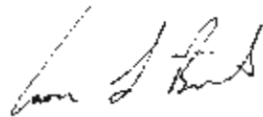
February 20, 2014

Dave Bouchard
WSP
5 Sullivan Street
Cazenovia, NY 13035

Project Location: 5140 Commercial Dr Yorkville, NY
Client Job Number:
Project Number: E0032927.000/05
Laboratory Work Order Number: 14B0474

Enclosed are results of analyses for samples received by the laboratory on February 19, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Betunit".

Aaron L. Betunit
Project Manager

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

WSP

5 Sullivan Street

Cazenovia, NY 13032

ATTN: Dave Bouchard

REPORT DATE: 2/20/2014

PURCHASE ORDER NUMBER

PROJECT NUMBER: E0032927-000005

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14B0474

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

PROJECT LOCATION: 5140 Commercial Dr. Yorkville, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Slab-35N-5E	14B0474-01	Soil		SM 2540G SW-846 8082A	
Slab-35N-15E	14B0474-02	Soil		SM 2540G SW-846 8082A	
Slab-35N-25E	14B0474-03	Soil		SM 2540G SW-846 8082A	
Slab-45N-5E	14B0474-04	Soil		SM 2540G SW-846 8082A	
Slab-45N-15E	14B0474-05	Soil		SM 2540G SW-846 8082A	
Slab-45N-25E	14B0474-06	Soil		SM 2540G SW-846 8082A	
Slab-45N-35E	14B0474-07	Soil		SM 2540G SW-846 8082A	
Slab-45N-45E	14B0474-08	Soil		SM 2540G SW-846 8082A	
Slab-55N-5E	14B0474-09	Soil		SM 2540G SW-846 8082A	
Slab-55N-15E	14B0474-10	Soil		SM 2540G SW-846 8082A	
Slab-55N-25E	14B0474-11	Soil		SM 2540G SW-846 8082A	
Slab-55N-35E	14B0474-12	Soil		SM 2540G SW-846 8082A	
Slab-55N-45E	14B0474-13	Soil		SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

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

SW-846 80824

Qualifications:

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Sample(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]

14B0474-02[Slab-35N-15E], 14B0474-03[Slab-35N-25E], 14B0474-04[Slab-45N-5E], 14B0474-05[Slab-45N-15E], 14B0474-06[Slab-45N-25E],
14B0474-07[Slab-45N-35E], 14B0474-10[Slab-55N-15E], 14B0474-11[Slab-55N-25E], 14B0474-12[Slab-55N-35E]

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

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



Daren J. Damhoragjan
Laboratory Manager

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits
- + Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

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

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

- S-01 The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Chain of Custody



Phone: 413-525-2332
Fax: 413-525-4405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 2

Company Name: WSP W&A Corp

Address: 5 Sullivan St.

Cazenovia, NY 13035

Attention: Dave Bouchard

Project Location: 540 Commercial Dr. Yonkers, NY

Sampled By: Kevin Sullivan

Telephone: 315-665-3300

Project # E0032927.000/05

Client PO#

DATA DELIVERY (check all that apply)

☐ FAX ☐ EMAIL ☐ WEBSITE

Fax #

Email: Dave.Bouchard@wspcorp.com

Project Proposal Provided? (for billing purposes)
Yes ☒ No ☐ proposal date 1/2/14

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Receiving Date/Time	Collection Ending Date/Time	Composite	*From Grab	*To Test Date
-01	SLAB 35N-5E	2/18/14	1330	X	S	L
-02	SLAB 35N-15E		1335	X	S	L
-03	SLAB 35N-25E		1340	X	S	L
-04	SLAB 45N-5E		1345	X	S	L
-05	SLAB 45N-15E		1350	X	S	L
-06	SLAB 45N-25E		1355	X	S	L
-07	SLAB 45N-35E		1400	X	S	L
-08	SLAB 45N-45E		1405	X	S	L
-09	SLAB 55N-5E		1410	X	S	L
-10	SLAB 55N-15E		1415	X	S	L

Comments: New York to NYCAR 375-6.8(A)

Requisition by: (signature) *Kevin Sullivan*

Received by: (signature) *[Signature]*

Requisitioned by: (signature) *[Signature]*

Received by: (signature) *[Signature]*

Turnaround #

☐ 7-Day ☐ 10-Day ☒ Other

RUSH 1

24-Hr ☐ 12-Hr ☐ 4-Hr ☐ 1-Hr ☐

Require lab approval

Detection Limit Requirements

Massachusetts:

Connecticut:

Other:

Is your project MCP or RCP?

☐ MCP Form Required

☐ RCP Form Required

☐ MA State DW Form Required PWSID #

NELAC & ANA-LAP, LLC Accredited

WBE/DBE Certified

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@con-testlabs.com
www.con-testlabs.com

CHAIN OF CUSTODY RECORD

319 Spruce Street
East Longmeadow, MA 01028

Page 2 of 2

Company Name: WSP USA Corp

Address: 5 Sullivan Street
Cateronia, NY 13035

Attention: Dave Bouchard

Project Location: 5140 Commercial Dr., Yonkers, NY

Sampled By: Kevin D. Sullivan

Project Proposal Provided? (for billing purposes)
Yes 1/30/2014 proposed date WDA

Telephone: 315-655-3700

Project #00329700/05

Client PO#

DATA DELIVERY (check all that apply)
☐ FAX ☐ EMAIL ☐ WEBSITE

Fax #

Email: Dave.Bouchard@wspusa.com

Format: ☐ PDF ☐ EXCEL ☐ OGIS ☐ CM

Other: ☐

Collection

Substrate

Depth

Composite

Grab

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Please use the following codes to tell Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

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

Is your project MCP or RCP?

☐ MCP Form Required

☐ RCP Form Required

☐ MA State DW Form Required PWSID #

Accredited

WBE/DBE Certified

NECAC & AHA-LAP, LLC

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

43

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Page 1 of 2

Sample Receipt Checklist

CLIENT NAME: WSP RECEIVED BY: CEC DATE: 2/19/14

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples?

If not, explain:

3) Are all the samples in good condition?

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.0°C

5) Are there Dissolved samples for the lab to filter?

Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	<u>13</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Doc# 277 # Bisulfate _____ # DI Water _____
Rev. 4 August 2013 # Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	NA	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements?

Date/Time:

Doc #277 Rev. 4 August 2013

Log-In Technician Initials:

Date/Time:

CFC

2/19/14 10/2

Worksheets

PERCENT SOLIDS

Preservative - Cool < 4C
Hold Time - 7 days

Sample Date	Sample ID	Laboratory ID	Matrix	Preservative	Days to Analysis	Date Analyzed	Dish Wgt	Sample Mass Wet	Sample Mass Dry	Calcd %S	Rptd %S
1 02/18/14	Slab-35N-5E	14B0474-01	Solid	Cool <4C	1	2/19/14	1.029	13.987	12.591	89.2	89.2
2 02/18/14	Slab-35N-15E	14B0474-02	Solid	Cool <4C	1	2/19/14	1.035	12.03	10.823	89.0	89
3 02/18/14	Slab-35N-25E	14B0474-03	Solid	Cool <4C	1	2/19/14	1.039	11.186	10.186	90.1	90.1
4 02/18/14	Slab-45N-5E	14B0474-04	Solid	Cool <4C	1	2/19/14	1.039	15.673	13.68	86.4	86.4
5 02/18/14	Slab-45N-15E	14B0474-05	Solid	Cool <4C	1	2/19/14	1.038	23.816	19.302	80.2	80.2
6 02/18/14	Slab-45N-25E	14B0474-06	Solid	Cool <4C	1	2/19/14	1.042	22.16	18.765	83.9	83.9
7 02/18/14	Slab-45N-35E	14B0474-07	Solid	Cool <4C	1	2/19/14	1.043	15.753	13.775	86.6	86.6
8 02/18/14	Slab-45N-45E	14B0474-08	Solid	Cool <4C	1	2/19/14	1.035	12.019	11.123	91.8	91.8
9 02/18/14	Slab-55N-5E	14B0474-09	Solid	Cool <4C	1	2/19/14	1.029	19.206	17.199	89.0	89
10 02/18/14	Slab-55N-15E	14B0474-10	Solid	Cool <4C	1	2/19/14	1.031	16.132	14.438	88.8	88.8
11 02/18/14	Slab-55N-25E	14B0474-11	Solid	Cool <4C	1	2/19/14	1.027	13.564	11.918	86.9	86.9
12 02/18/14	Slab-55N-35E	14B0474-12	Solid	Cool <4C	1	2/19/14	1.027	16.617	14.666	87.5	87.5
13 02/18/14	Slab-55N-45E	14B0474-13	Solid	Cool <4C	1	2/19/14	1.031	18.115	15.103	82.4	82.4

Sample	Slab-35N-5E	Slab-55N-25E
Dup	89.2	86.9
RPD	89.4	86.2
RPD Rptd	-0.224	0.809
RPD	0.224	0.809
RPD $\frac{(0.65-1.0D)}{(LCS+LCS DY2)} \times 100$		

↓

↓

345

CON-TEST LABORATORY

PERCENT SOLIDS

analyst	TEMP IN: 104 °C sample#	dish	dish & sample	time	date	sample	dried dish & sample	time	date	dried sample	% solid
	B090649	✓	↓		↓		↓				✓
BJH	14B0474-01	1.029 g	13.987 g	g 15:33	02/19/2014	12.9580 g	12.591 g	10:29	02/20/2014	11.5620 g	89.2
BJH	14B0474-02	1.035 g	12.030 g	g 15:34	02/19/2014	10.9950 g	10.823 g	10:29	02/20/2014	9.7880 g	89.0
BJH	14B0474-03	1.039 g	11.186 g	g 15:35	02/19/2014	10.1470 g	10.186 g	10:29	02/20/2014	9.1470 g	90.1
BJH	14B0474-04	1.039 g	15.673 g	g 15:35	02/19/2014	14.6340 g	13.680 g	10:30	02/20/2014	12.6410 g	86.4
BJH	14B0474-05	1.038 g	23.816 g	g 15:36	02/19/2014	22.7780 g	19.302 g	10:30	02/20/2014	18.2640 g	80.2
BJH	14B0474-06	1.042 g	22.160 g	g 15:37	02/19/2014	21.1180 g	18.765 g	10:30	02/20/2014	17.7230 g	83.9
BJH	14B0474-07	1.043 g	15.753 g	g 15:38	02/19/2014	14.7100 g	13.775 g	10:30	02/20/2014	12.7320 g	86.6
BJH	14B0474-08	1.035 g	12.019 g	g 15:38	02/19/2014	10.9840 g	11.123 g	10:30	02/20/2014	10.0880 g	91.8
BJH	14B0474-09	1.029 g	19.206 g	g 15:39	02/19/2014	18.1770 g	17.199 g	10:31	02/20/2014	16.1700 g	89.0
BJH	14B0474-10	1.031 g	16.132 g	g 15:40	02/19/2014	15.1010 g	14.438 g	10:31	02/20/2014	13.4070 g	88.8
BJH	14B0474-11	1.027 g	13.564 g	g 15:40	02/19/2014	12.5370 g	11.918 g	10:31	02/20/2014	10.8910 g	86.9
BJH	14B0474-12	1.027 g	16.617 g	g 15:42	02/19/2014	15.5900 g	14.666 g	10:31	02/20/2014	13.6390 g	87.5
BJH	14B0474-13	1.031 g	18.115 g	g 15:43	02/19/2014	17.0840 g	15.103 g	10:31	02/20/2014	14.0720 g	82.4
BJH	DCP1 (14B0474-01)	1.042 g	13.907 g	g 15:33	02/19/2014	12.8650 g	12.546 g	10:31	02/20/2014	11.5040 g	89.4
BJH	DCP2 (14B0474-11)	1.037 g	13.538 g	g 15:41	02/19/2014	12.5010 g	11.819 g	10:31	02/20/2014	10.7820 g	86.2

48



341

44

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DUPLICATES

Slab-35N-5E

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0474
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Laboratory ID:	B090649-DUP1
Batch:	B090649	Initial/Final:	5 g / 5 g
Preparation:	% Solids	Analysis:	SM 2540G
% Solids:	89.20		

ANALYTE	SAMPLE CONCENTRATION (% Wt)	DUPLICATE CONCENTRATION (% Wt)	RPD %	Q	CONTROL LIMIT
% Solids	89.2	89.4	0.224		20

DUPLICATES

Slab-55N-25E

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0474
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Laboratory ID:	B090649-DUP2
Batch:	B090649	Initial/Final:	5 g / 5 g
Preparation:	% Solids	Analysis:	SM 2540G
% Solids:	86.90		

ANALYTE	SAMPLE CONCENTRATION (% Wt)	DUPLICATE CONCENTRATION (% Wt)	RPD %	Q	CONTROL LIMIT
% Solids	86.9	86.2	0.809		20

Hold Times for PCBs - RM2

Preservative: Cuel-11C

Hold Time: 3 days to extraction aqueous, 14 days to extraction solids 40 days to analysis aqueous and solids

Sample Date	Sample ID	Inventory ID	Matrix	Preservative	Days to Extraction	Date Extracted	Days to Analysis	Date Analyzed	DI	Prop. Batch
02/18/14	5AB-55N-15E	14B0474-01	Solid	OK	1	2/18/14	0	2/19/14	1X	B090593
02/18/14	5AB-55N-15E	14B0474-02	Solid	OK	1	2/18/14	1	2/20/14	50X	B090593
02/18/14	5AB-55N-15E	14B0474-03	Solid	OK	1	2/18/14	1	2/20/14	50X	B090593
02/18/14	5AB-55N-15E	14B0474-04	Solid	OK	1	2/18/14	1	2/20/14	1000X	B090593
02/18/14	5AB-55N-15E	14B0474-05	Solid	OK	1	2/18/14	1	2/20/14	100X	B090593
02/18/14	5AB-55N-15E	14B0474-06	Solid	OK	1	2/18/14	1	2/20/14	1000X	B090593
02/18/14	5AB-55N-15E	14B0474-07	Solid	OK	1	2/18/14	1	2/20/14	1000X	B090593
02/18/14	5AB-55N-15E	14B0474-08	Solid	OK	1	2/18/14	1	2/20/14	10X	B090593
02/18/14	5AB-55N-15E	14B0474-09	Solid	OK	1	2/18/14	1	2/20/14	10X	B090593
02/18/14	5AB-55N-15E	14B0474-10	Solid	OK	1	2/18/14	1	2/20/14	1000X	B090593
02/18/14	5AB-55N-15E	14B0474-11	Solid	OK	1	2/18/14	1	2/20/14	1000X	B090593
02/18/14	5AB-55N-15E	14B0474-12	Solid	OK	1	2/18/14	1	2/20/14	1000X	B090593
02/18/14	5AB-55N-15E	14B0474-13	Solid	OK	1	2/18/14	1	2/20/14	10X	B090593

Calculations for PCBs - RM2

LCS/CSD Lab limits used for validation unless otherwise noted

Sample	Amount Found	Compound	PCB 250	col 1
LCS	0.25	Amount Spiked	0.2	FORM 3
CSD	0.2	Amount Spiked	0.2	126
RPO	22.2	Amount Spiked	22.2	100
		Amount Spiked	22.2	21.6

Recovery = (Amount Found / Amount Spiked) * 100

RPO = (LCS / CSD) * (CSD / 22.2) * 100

Lab limits used for validation unless otherwise noted

Calibration NFG June 2008 PCB criteria used for validation unless otherwise noted
 %RSD 4%, 30% Error 0.00

Instrument	IC-51	IC-41
Date	1-7-14	1-2-13
Time		

Initial Calibration Calibration Check

Date	1-7-14	
Instrument	IC-51	
Compound	1260 Peak	
Column	1	
Reported Average CF	918000.0000	
Calculated Average CF	918000.0000	
Reported RSD	5.7900	
Calculated RSD	5.5668	
	(R ² = 0.9999)	
RRT1	4.18E+05	4.18E+05
RRT2	8.87E+05	8.87E+05
RRT3	9.27E+05	9.27E+05
RRT4	5.77E+05	5.77E+05
RRT5		
SUM	36.72000	36.72000
	(Sum/N) = 1.15	(Sum/N) = 1.15
	N = 4	N = 4
	N = 1	N = 1

Reported Amount	812600.00	
Calculated Amount	812600.00	
Compound Area (A1)	1.75E+05	
Compound Conc (C1)	301	

Date	2-12-11	
Instrument	IC-51	
Compound	1260 Peak 1	
Column	1	
Reported Average CF	5.62E+05	
Calculated Average CF	566350.0000	
Reported RSD	5.7900	
Calculated RSD	6.5807	
	(R ² = 0.9999)	
RRT1	6.37E+05	6.37E+05
RRT2	5.75E+05	5.75E+05
RRT3	5.65E+05	5.65E+05
RRT4	5.9E+05	5.9E+05
RRT5		
SUM	27.66700	27.66700
	(Sum/N) = 5.5333	(Sum/N) = 5.5333
	N = 4	N = 4
	N = 1	N = 1

Reported Amount	519700.00	
Calculated Amount	519700.000	
Compound Area (A1)	1.94E+08	
Compound Conc (C1)	301	

Date	2-12-11	
Instrument	IC-51	
Compound	1260 Peak 1	
Column	1	
Reported Average CF	5.62E+05	
Calculated Average CF	566350.0000	
Reported RSD	5.7900	
Calculated RSD	6.5807	
	(R ² = 0.9999)	
RRT1	6.37E+05	6.37E+05
RRT2	5.75E+05	5.75E+05
RRT3	5.65E+05	5.65E+05
RRT4	5.9E+05	5.9E+05
RRT5		
SUM	27.66700	27.66700
	(Sum/N) = 5.5333	(Sum/N) = 5.5333
	N = 4	N = 4
	N = 1	N = 1

Reported Amount	519700.00	
Calculated Amount	519700.000	
Compound Area (A1)	1.94E+08	
Compound Conc (C1)	301	

Date	2-12-11	
Instrument	IC-51	
Compound	1260 Peak 1	
Column	1	
Reported Average CF	5.62E+05	
Calculated Average CF	566350.0000	
Reported RSD	5.7900	
Calculated RSD	6.5807	
	(R ² = 0.9999)	
RRT1	6.37E+05	6.37E+05
RRT2	5.75E+05	5.75E+05
RRT3	5.65E+05	5.65E+05
RRT4	5.9E+05	5.9E+05
RRT5		
SUM	27.66700	27.66700
	(Sum/N) = 5.5333	(Sum/N) = 5.5333
	N = 4	N = 4
	N = 1	N = 1

Reported Amount	519700.00	
Calculated Amount	519700.000	
Compound Area (A1)	1.94E+08	
Compound Conc (C1)	301	

53

Continuing Calibration Calculation Check NPG vs. I45DIF CTS

Date	2/7/914	
Time	3:40	
Instrument	ECIP-1	
Compound	1260 Peak 1	
Column	1	2
Reported Amount	110.14	112.10
Calculated Amount	110.143	112.145
Compound Area (A1)	9679.388	5995.950
Compound Conc (C1)	188	100
ICAI RRF Peak 1	9.08E-05	5.35E-05
Peak 1	110.144	112.141
Peak 2	98.803	112.95
Peak 3	116.62	117.822
Peak 4	110.224	110.225
Peak 5	153.953	126.641
Avg Amt 1260	117.2472	15.3548
Rpt Amt 1260	117	116
Exptl Amt 1260	100	100
Rpt %D	17.2	16
Calc %D	-17.3%	-10.6%

%Difference for %D only = ((ICAI - EXCVIC)/ICAI)*100

Date	2/7/914	
Time	10:07	
Instrument	ECIP-10	
Compound	1260 Peak 1	
Column	1	1
Reported Amount	95.55	64.56
Calculated Amount	95.556	94.561
Compound Area (A1)	51673586	53495075
Compound Conc (C1)	188	100
ICAI RRF Peak 1	5.82E-05	9.77E-05
Peak 1	95.549	94.556
Peak 2	89.753	97.531
Peak 3	93.134	100.501
Peak 4	86.868	101.95
Peak 5	97.957	103.268
Avg Amt 1260	92.60	99.5538
Rpt Amt 1260	100	99.10
Exptl Amt 1260	100	100
Rpt %D	7.4	0.4
Calc %D	7.4%	0.4%

Surrogate Calculation Check Lab limits used for calculation unless otherwise noted
NPL: 10-150%

SAMPLE		Slab-33N-45E 1a12			
		AMOUNT		FORM 1	
SUR	PCB NO	AMOUNT SPIKED	%R	FORM 2	
TCX 1	17367	20	93.1	93.1	
TCX 2	17328	20	89.1	89.1	
DCB 1	22.1	20	116.5	116.5	
DCB 2	11.05	20	55.3	55.3	
				108	

Quantitation Calculation Check

Sample		Slab-33N-45E		Sample		Slab-33N-45E	
Lab ID		1480474-01		Lab ID		1480474-12	
Compound		PCB - 260		Compound		PCB - 260	
Final Result mg/kg		4.4		Final Result mg/kg		4.1	
Instrument		ECD 9		Instrument		ECD 13	
Column		Col 1		Column		Col 1	
Peak 1		62078577		Peak 1		30653889	
CF		9.05E-05		CF		1.63E-05	
Peak 2		96378186		Peak 2		21621422	
CF		1.31E-06		CF		8.16E-05	
Peak 3		65555563		Peak 3		7415116	
CF		8.07E-06		CF		5.14E-05	
Peak 4		74478027		Peak 4		19564772	
CF		8.53E-05		CF		5.64E-05	
Peak 5		1548468		Peak 5		40064955	
CF		1.82E-06		CF		2.4E-06	
Avg Conc ug/L		78.4436		Avg Conc ng/L		34.9469	
Extract Vol µ		10.209		Extract Vol µ		10.188	
Final Vol mL		0		Final Vol mL		10	
DF		50		DF		10	
Conversion		1.001		Conversion		0.001	
%Solid		0.901		%Solid		0.875	
Final Conc mg/kg		4.268		Final Conc mg/kg		3.6182	

Sample		Slab-33N-45E		Sample		Slab-33N-45E	
Lab ID		1480474-01		Lab ID		1480474-12	
Compound		PCB - 260		Compound		PCB - 260	
Final Result mg/kg		4.4		Final Result mg/kg		4.1	
Instrument		ECD 9		Instrument		ECD 13	
Column		Col 1		Column		Col 1	
Peak 1		62078577		Peak 1		30653889	
CF		9.05E-05		CF		1.63E-05	
Peak 2		96378186		Peak 2		21621422	
CF		1.31E-06		CF		8.16E-05	
Peak 3		65555563		Peak 3		7415116	
CF		8.07E-06		CF		5.14E-05	
Peak 4		74478027		Peak 4		19564772	
CF		8.53E-05		CF		5.64E-05	
Peak 5		1548468		Peak 5		40064955	
CF		1.82E-06		CF		2.4E-06	
Avg Conc ug/L		78.4436		Avg Conc ng/L		34.9469	
Extract Vol µ		10.209		Extract Vol µ		10.188	
Final Vol mL		0		Final Vol mL		10	
DF		50		DF		10	
Conversion		1.001		Conversion		0.001	
%Solid		0.901		%Solid		0.875	
Final Conc mg/kg		4.268		Final Conc mg/kg		3.6182	

2 - FORM II

SYSTEM MONITORING COMPOUND SUMMARY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	SDG:	14B0474
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Instrument:	ECD10

	DCB 1 (30% - 150%)	DCB 2 (30% - 150%)	TCX 1 (30% - 150%)	TCX 2 (30% - 150%)
14B0474-01	122	94.0	109	99.1
14B0474-02	*	*	*	*
14B0474-03	*	*	*	*
14B0474-04	*	*	*	*
14B0474-05	*	*	*	*
14B0474-06	*	*	*	*
14B0474-07	*	*	*	*
14B0474-08	112	113	102	95.7
14B0474-09	107	107	97.8	91.5
14B0474-10	*	*	*	*
14B0474-11	*	*	*	*
14B0474-12	*	*	*	*
14B0474-13	110	108	95.3	89.1
B090593-BLK1	111	85.6	100	92.1
B090593-B51	147	114	129	120
B090593-BSD1	110	85.9	98.8	91.3

Data Path : C:\msdchem\1\data\021814\
 Data File : J0218170.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Feb 2014 12:42 pm
 Operator : JMB
 Sample : 14B0474-13@10X Inst : ECD10
 Misc :
 ALS Vial : 72 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Feb 20 12:58:29 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-020614.M
 Quant Title : 1260/1016 12/12/13 12/05/13
 QLast Update : Wed Jan 29 08:21:39 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) S Tetrachlo...	2.456	2.866	225.1E6	242.5E6	19.067	17.828
Spiked Amount	200.000		Recovery	=	9.53%	8.91%
2) S Decachlor...	6.530	7.191	221.1E6	216.4E6	22.100	21.672
Spiked Amount	200.000		Recovery	=	11.05%	10.84%
Target Compounds						
3) L1 1016{1}	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016{2}	0.000	3.918	0	1518484	N.D.	2.449 #
5) L1 1016{3}	3.304	0.000	1462664	0	2.869	N.D. #
6) L1 1016{4}	0.000	4.176	0	2076465	N.D.	8.440 #
7) L1 1016{5}	3.690	4.389	839441	1596008	2.961	4.539 #
Sum 1016			2302106	5190957	5.829	15.429
Average 1016					2.915	5.143
8) L7 1260{1}	4.596	5.402	87317073	101.4E6	155.440	149.776m
9) L7 1260{2}	4.812	5.570	148.3E6	137.1E6	173.343	173.612
10) L7 1260{3}	5.118	5.933	66625535	78098952	129.628	134.052
11) L7 1260{4}	5.311	6.152	71948351	91516215	128.505m	140.358
12) L7 1260{5}	5.560	0.000	167.8E6	0	135.464	N.D. d#
Sum 1260			542.0E6	408.1E6	722.381	597.800
Average 1260					144.476	149.450

{f}<RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:
 PETER GRYSZCOWICZ FEB 20 2014

Data Path : C:\msdchem\1\data\022014\
 Data File : 10220012.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2H.ch
 Acq On : 20 Feb 2014 10:13 am
 Operator : JMB
 Sample : 14B0474-03050X Inst : ECD 9
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Feb 20 11:39:53 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\9-1260-012814.M
 Quant Title : 1260/1016 01/07/14 12/05/13
 QLast Update : Mon Jan 27 10:46:22 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.915	3.303	83615812	40975629	4.075	3.767
Spiked Amount	200.000		Recovery	=	2.04%	1.88%
2) S Decachlor...	6.996	7.638	93906951	61912621	5.863	6.578
Spiked Amount	200.000		Recovery	=	2.93%	3.29%
Target Compounds						
3) L1 1016(1)	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016(2)	0.000	0.000	0	0	N.D.	N.D.
5) L1 1016(3)	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016(4)	0.000	0.000	0	0	N.D.	N.D.
7) L1 1016(5)	4.237	0.000	711502	0	1.494	N.D. #
Sum 1016			711502	0	1.494	N.D.
Average 1016					1.494	0.000
8) L7 1260(1)	5.190	5.946	62078577	37618821	68.596m	70.365m
9) L7 1260(2)	5.415	6.100	96878186	49616818	70.540	60.019
10) L7 1260(3)	5.728	6.416	65553393	41896252	81.188	90.778
11) L7 1260(4)	5.923	6.612	74474927	41276103	87.351m	78.932 "
12) L7 1260(5)	6.153	0.000	154.0E6	0	84.554	N.D. d#
Sum 1260			453.0E6	170.4E6	392.229	320.094
Average 1260					78.446	80.023

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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58

Data Path : C:\msdchem\1\data\021814\
 Data File : J0218169.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Feb 2014 12:29 pm
 Operator : JMB
 Sample : 14B0474-12@1000X Inst : ECD10
 Misc :
 ALS Vial : 71 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Feb 20 12:56:27 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-020614.M
 Quant Title : 1260/1016 12/12/13 12/05/13
 QLast Update : Wed Jan 29 08:21:39 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/I.
System Monitoring Compounds						
1) S Tetrachlo...	2.457	2.866	2606004	3126546	0.221	0.230
Spiked Amount 200.000			Recovery	=	0.11%	0.11%
2) S Decachlor...	6.530	7.196	5255510	9263787	0.525	0.928 #
Spiked Amount 200.000			Recovery	=	0.26%	0.46%
Target Compounds						
3) L1 1016{1}	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016{2}	0.000	0.000	0	0	N.D.	N.D.
5) L1 1016{3}	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016{4}	0.000	0.000	0	0	N.D.	N.D.
7) L1 1016{5}	0.000	0.000	0	0	N.D.	N.D.
Sum 1016			0	0	N.D.	N.D.
Average 1016					0.000	0.000
8) L7 1260{1}	4.598	5.403	20657889	26616687	36.775	39.326
9) L7 1260{2}	4.813	5.570	31637432	31277270	36.980	39.602
10) L7 1260{3}	5.118	5.934	17415336	21419616	33.884	36.765
11) L7 1260{4}	5.311	6.153	19564772	24182454	34.944m	37.098
12) L7 1260{5}	5.560	6.320	40044959	38639786	32.331	28.769
Sum 1260			129.3E6	142.1E6	174.913	181.551
Average 1260					34.983	36.310

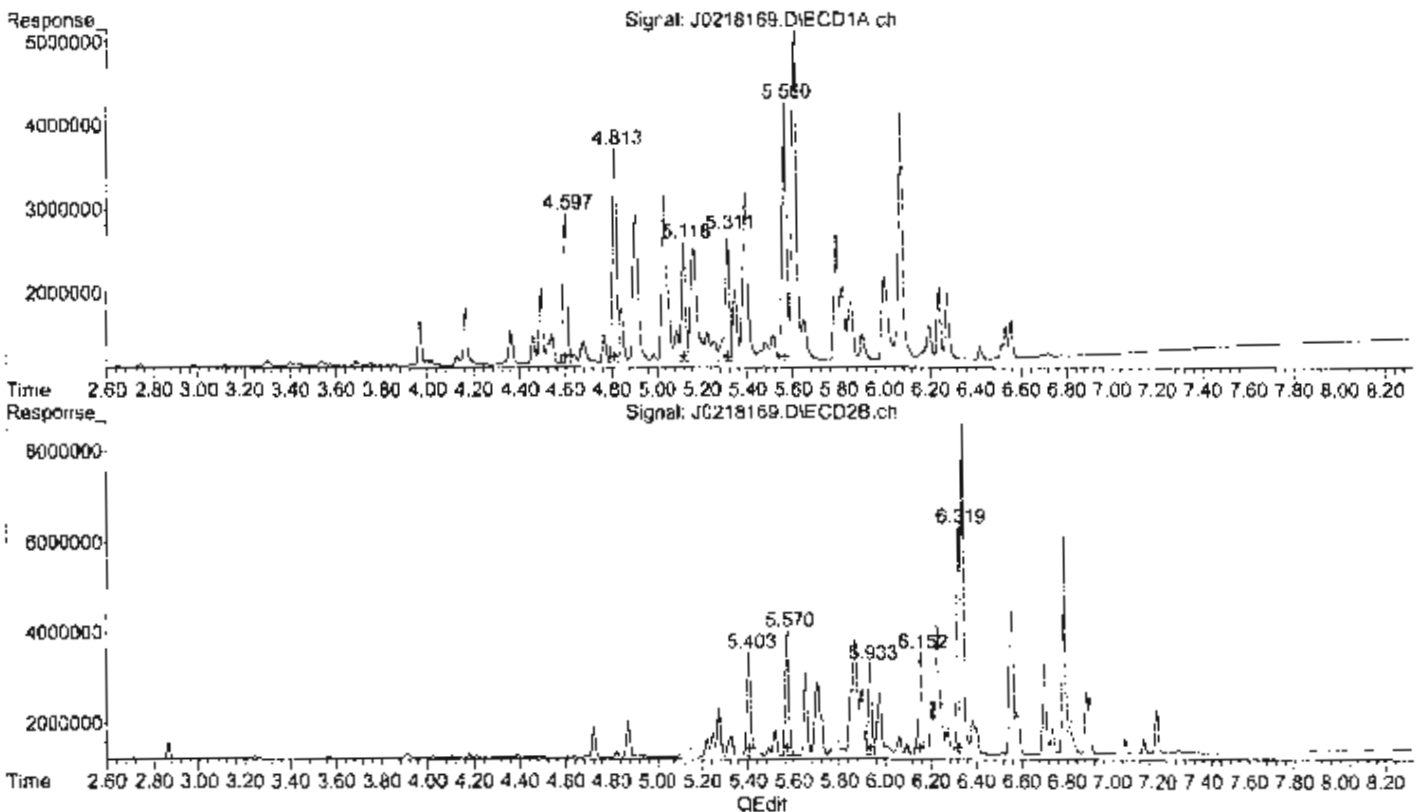
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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 PETER GRYSZCZAK FEB 20 2014

Data Path : C:\msdchem\1\data\021814\
 Data File : J0218169.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Feb 2014 12:29 pm
 Operator : JMB
 Sample : 14B0474-12@1000X Inst : ECD10
 Misc :
 ALS Vial : 71 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Feb 20 12:52:47 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-020614.M
 Quant Title : 1260/1016 12/12/13 12/05/13
 QLast Update : Wed Jan 29 09:21:39 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



(8) 1260(1) (L7)
 R.T. Response Conc
 4.60 20657889 36.77
 4.81 31637432 36.98
 5.12 17415336 33.88
 5.31 21759962 38.86
 5.56 40044959 32.33

(8) 1260(1) #2 (L7)
 R.T. Response Conc
 5.40 26816587 39.33
 5.57 31277270 39.80
 5.93 21419616 36.77
 6.15 24182454 37.09
 6.32 38639786 28.77

CHECKED BY:
 PETER GRISAKIEWICZ FEB 20 2014

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Slab-35N-5E

Lab Sample ID: 14B0474-01 Date(s) Analyzed: 02/19/2014 02/19/2014
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.15	
	2	0.00	0.00	0.00	0.17	11.2

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Slab-35N-15E

Lab Sample ID: 14B0474-02 Date(s) Analyzed: 02/20/2014 02/20/2014
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	7.4	
	2	0.00	0.00	0.00	7.6	2.5



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Slab-35N-25E***SW-846 8082A*

Lab Sample ID: 14B0474-03 Date(s) Analyzed: 02/20/2014 02/20/2014
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	4.3	
	2	0.00	0.00	0.00	4.4	3.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Slab-45N-5E

Lab Sample ID: 14B0474-04 Date(s) Analyzed: 02/20/2014 02/20/2014
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	46	
	2	0.00	0.00	0.00	51	10.3



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***Slab-45N-15E**

Lab Sample ID: 14B0474-05 Date(s) Analyzed: 02/20/2014 02/20/2014
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	8.8	
	2	0.00	0.00	0.00	9.8	10.3

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A
Slab-45N-25E

Lab Sample ID: 14B0474-06 Date(s) Analyzed: 02/20/2014 02/20/2014
 Instrument ID (1): ECD10 Instrument ID (2): ECD10
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	46	
	2	0.00	0.00	0.00	50	8.8



66

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Slab-45N-45E***SW-846 8082A*

Lab Sample ID: 14B0474-08 Date(s) Analyzed: 02/20/2014 02/20/2014
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.49	
	2	0.00	0.00	0.00	0.52	6.4

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Slab-55N-5E

Lab Sample ID: 14B0474-09 Date(s) Analyzed: 02/20/2014 02/20/2014
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	1.3	
	2	0.00	0.00	0.00	1.4	4.4



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Slab-55N-15E***SW-846 8082A*

Lab Sample ID: 14B0474-10 Date(s) Analyzed: 02/20/2014 02/20/2014
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	18	
	2	0.00	0.00	0.00	20	8.9

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Slab-55N-25E

Lab Sample ID: 14B0474-11 Date(s) Analyzed: 02/20/2014 02/20/2014
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID. (mm) GC Column (2): ID. (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	55	
	2	0.00	0.00	0.00	59	6.8

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Slab-55N-35E

Lab Sample ID: 14B0474-12 Date(s) Analyzed: 02/20/2014 02/20/2014
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1) ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	40	
	2	0.00	0.00	0.00	41	3.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Sleb-55N-45E

Lab Sample ID: 14B0474-13 Date(s) Analyzed: 02/20/2014 02/20/2014
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1) ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	1.8	
	2	0.00	0.00	0.00	1.8	2.8

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0474
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B090593	Laboratory ID:	B090593-BS1
Column:	1	Initial/Final:	10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	0.200	0.24	118	40 - 140
Aroclor-1260	0.200	0.25	126	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016	0.200	0.18	92.5	23.9	30	40 - 140
Aroclor-1260	0.200	0.20	100	22.6	30	40 - 140

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0474
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B090593	Laboratory ID:	B090593-BS1
Column:	2	Initial/Final:	10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	0.200	0.20	101	40 - 140
Aroclor-1260 [2C]	0.200	0.27	135	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016 [2C]	0.200	0.16	77.8	25.6	30	40 - 140
Aroclor-1260 [2C]	0.200	0.21	107	23.1	30	40 - 140

1 - FORM I

ANALYSIS DATA SHEET

LCS

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0474
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: B090593-BS1 File ID: 10218125.d
 Sampled: Prepared: 02/19/14 13:12 Analyzed: 02/19/14 21:37
 Solids: Preparation: SW-846 3546 Dilution:
 Batch: B090593 Sequence: S005563 Calibration: 1400029 Instrument: ECD 9
 Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.24	0.031	0.10	
11096-82-5	Aroclor-1260	0.25	0.048	0.10	

1 - FORM I

ANALYSIS DATA SHEET

LCS

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0474
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: B090593-BS1 File ID: 10218125.d
 Sampled: Prepared: 02/19/14 13:12 Analyzed: 02/19/14 21:37
 Solids: Preparation: SW-846 3546 Dilution:
 Batch: B090593 Sequence: S005563 Calibration: 1400029 Instrument: ECD 9
 Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.20	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.27	0.048	0.10	

Data Path : C:\msdchem\1\data\021814\
 Data File : 10218125.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2014 9:37 pm
 Operator : JMB
 Sample : B090593-BS105X TBA Inst : ECD 9
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Feb 20 08:07:10 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\9-1260-012814.M
 Quant Title : 1260/1016 01/07/14 12/05/13
 QLast Update : Mon Jan 27 10:46:22 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.915	3.303	1061.8E6	520.7E6	51.750	47.864
Spiked Amount	200.000		Recovery	=	25.87	23.93
2) S Decachlor...	6.996	7.636	942.2E6	430.7E6	58.828	45.759
Spiked Amount	200.000		Recovery	=	29.41	22.88
Target Compounds						
3) L1 1016(1)	3.467	4.245	36656332	7320062	49.588	44.454
4) L1 1016(2)	3.825	4.416	39629088	21607391	45.545	44.313
5) L1 1016(3)	3.925	4.525	28714734	11863022	46.908	35.791
6) L1 1016(4)	3.973	4.611	17985054	7158481	46.608	34.814
7) L1 1016(5)	4.236	4.906	21215245	11632413	44.544	41.916
Sum 1016			144.2E6	59581369	235.193	201.289
Average 1016					47.039	40.258
8) L7 1260(1)	5.190	5.946	46270757	28574160	51.128	53.447
9) L7 1260(2)	5.415	6.101	57215052	33579415	41.660	54.155
10) L7 1260(3)	5.729	6.417	42558433	25898316	52.709	56.115
11) L7 1260(4)	5.924	6.611	40180531	27646461	47.127	52.068
12) L7 1260(5)	6.153	6.759	106.4E6	58534862	58.391	54.370
Sum 1260			292.6E6	174.2E6	251.015	270.955
Average 1260					50.203	54.191

CHECKED BY:
 MARISSA CAGAN
 FEB 20 2014

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

1 - FORM I

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 1480474
 Client: WSP Project: \$140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: B090593-BSD1 File ID: 10218126.d
 Sampled: Prepared: 02/19/14 13:12 Analyzed: 02/19/14 21:49
 Solids: Preparation: SW-846 3546 Dilution:
 Batch: B090593 Sequence: S005563 Calibration: 1400029 Instrument: ECD 9
 Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.18	0.031	0.10	
11096-82-5	Aroclor-1260	0.20	0.048	0.10	

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

1 - FORM I ANALYSIS DATA SHEET

LCS Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0474
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: B090593-BSD1 File ID: 10218126.d
 Sampled Prepared: 02/19/14 13:12 Analyzed: 02/19/14 21:49
 Solids: Preparation: SW-846 3546 Dilution:
 Batch: B090593 Sequence: S005563 Calibration: 1400029 Instrument: ECD 9
 Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.16	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.21	0.048	0.10	

4 - FORM IV METHOD BLANK SUMMARY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0474
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Blank ID:	B090593-BLK1	Batch:	B090593
		Prepared:	02/19/2014 13:12

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
LCS Dup	B090593-BSD1	I0218126.d	21:49
LCS	B090593-BSD1	I0218125.d	21:37
Slab-55N-45E	14B0474-13	J0218170.D	12:42
Slab-55N-35E	14B0474-12	J0218169.D	12:29
Slab-55N-25E	14B0474-11	J0218168.D	12:17
Slab-55N-15E	14B0474-10	J0218167.D	12:04
Slab-55N-5E	14B0474-09	J0218166.D	11:52
Slab-45N-45E	14B0474-08	J0218165.D	11:39
Slab-45N-35E	14B0474-07	J0218164.D	11:27
Slab-45N-25E	14B0474-06	J0218163.D	11:14
Slab-45N-15E	14B0474-05	J0218162.D	11:02
Slab-45N-5E	14B0474-04	J0218161.D	10:50
Slab-35N-25E	14B0474-03	I0220012.d	10:13
Slab-35N-15E	14B0474-02	I0220011.d	10:01
Slab-35N-5E	14B0474-01	I0218128.d	22:14

1 - FORM I ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0474
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: B090593-BLK1 File ID: I0218124.d
 Sampled: Prepared: 02/19/14 13:12 Analyzed: 02/19/14 21:24
 Solids: Preparation: SW-846 3546 Dilution:
 Batch: B090593 Sequence: S005563 Calibration: 1400029 Instrument: ECD 9
 Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0062	0.020	
11104-28-2	Aroclor-1221		0.020	0.020	
11141-16-5	Aroclor-1232		0.012	0.020	
53469-21-9	Aroclor-1242		0.010	0.020	
12672-29-6	Aroclor-1248		0.012	0.020	
11097-69-1	Aroclor-1254		0.0086	0.020	
11096-82-5	Aroclor-1260		0.0096	0.020	
37324-23-5	Aroclor-1262		0.0082	0.020	
11100-14-4	Aroclor-1268		0.012	0.020	

1 - FORM I

ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0474
 Client: WSP Project: 5140 Sme - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: B090593-BLK1 File ID: 10218124.d
 Sampled: Prepared: 02/19/14 13:12 Analyzed: 02/19/14 21:24
 Solids: Preparation: SW-846 3546 Dilution:
 Batch: B090593 Sequence: S005563 Calibration: 1400029 Instrument: ECD 9
 Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]		0.0062	0.020	
11104-28-2	Aroclor-1221 [2C]		0.020	0.020	
11141-16-5	Aroclor-1232 [2C]		0.012	0.020	
53469-21-9	Aroclor-1242 [2C]		0.010	0.020	
12672-29-6	Aroclor-1248 [2C]		0.012	0.020	
11097-69-1	Aroclor-1254 [2C]		0.0086	0.020	
11096-82-5	Aroclor-1260 [2C]		0.0096	0.020	
37324-23-5	Aroclor-1262 [2C]		0.0082	0.020	
11100-14-4	Aroclor-1268 [2C]		0.012	0.020	

PREPARATION BENCH SHEET

318

B090593

Con-Test Analytical Laboratory

Printed: 3/12/2014 8:32:31AM

Surrogate used: 1402112

Prepared using: SV-GC - SW-846 3546

Matrix: Soil

Lab Number	Analysis	Prepared	Initial (g)	Final (ml)	Spike ID	Source ID	ul Spike	Location	Client	Extraction Comments
14B0474-01	8082	02/19/14	10	10				Walk in cooler 4		
14B0474-01	8082	02/19/14	10	10				Refrigerator 30	WSP	Soils run undilute - Report to MDL
14B0474-02	8082	02/19/14	10	10				Refrigerator 30	WSP	Soils run undilute - Report to MDL
14B0474-03	8082	02/19/14	10.2	10				Refrigerator 30	WSP	Soils run undilute - Report to MDL
14B0474-04	8082	02/19/14	10	10				Refrigerator 30	WSP	Soils run undilute - Report to MDL
14B0474-05	8082	02/19/14	10	10				Refrigerator 30	WSP	Soils run undilute - Report to MDL
14B0474-06	8082	02/19/14	10.2	10				Refrigerator 30	WSP	Soils run undilute - Report to MDL
14B0474-07	8082	02/19/14	10.1	10				Refrigerator 30	WSP	Soils run undilute - Report to MDL
14B0474-08	8082	02/19/14	10	10				Refrigerator 30	WSP	Soils run undilute - Report to MDL
14B0474-09	8082	02/19/14	10	10				Refrigerator 30	WSP	Soils run undilute - Report to MDL
14B0474-10	8082	02/19/14	10	10				Refrigerator 30	WSP	Soils run undilute - Report to MDL
14B0474-11	8082	02/19/14	10	10				Refrigerator 30	WSP	Soils run undilute - Report to MDL
14B0474-12	8082	02/19/14	10.1	10				Refrigerator 30	WSP	Soils run undilute - Report to MDL
14B0474-13	8082	02/19/14	10	10				Refrigerator 30	WSP	Soils run undilute - Report to MDL
B090593-BLK1	QC	02/19/14	10	10						
B090593-BL1	QC	02/19/14	10	10	1401300		1000			
B090593-BSD1	QC	02/19/14	10	10	1401300		1000			
B090593-M51	QC	02/19/14	10	10	1401300	14B0456-01	1000			
B090593-M5D1	QC	02/19/14	10	10	1401300	14B0456-01	1000			

Spiking Witnessed By _____ Date _____ Preparation Reviewed By _____ Date _____ Extractions Received By _____ Date _____

82

Analysis Log

Date	Filename	Lab ID	Sample Info
18 Feb 2014	6:57 am I0218001.d	ISO	
18 Feb 2014	7:10 am I0218002.d	ISO	
18 Feb 2014	7:22 am I0218003.d	ISO	
18 Feb 2014	7:35 am I0218004.d	1260/1016 100	1312045
18 Feb 2014	7:47 am I0218005.d	1254 100	1309167
18 Feb 2014	7:59 am I0218006.d	1248 100	1309296
18 Feb 2014	8:12 am I0218007.d	1242 100	1309268
18 Feb 2014	8:24 am I0218008.d	1232/1268 100	1312248
18 Feb 2014	8:36 am I0218009.d	1221/1262 100	1401037
18 Feb 2014	8:49 am I0218010.d	ISO	
18 Feb 2014	10:50 am I0218011.d	P/P SURR 1402112	
18 Feb 2014	3:38 pm I0218012.d	ISO	
18 Feb 2014	3:50 pm I0218013.d	B090412-BLK10TBA	
18 Feb 2014	4:03 pm I0218014.d	B090412-BLK10EF 1CU	
18 Feb 2014	4:15 pm I0218015.d	B090412-BL10TBA	
18 Feb 2014	4:28 pm I0218016.d	B090412-BL10EF 1CU	
18 Feb 2014	4:40 pm I0218017.d	B090412-BSD10TBA	
18 Feb 2014	4:52 pm I0218018.d	B090412-BSD10EF 1CU	
18 Feb 2014	5:05 pm I0218019.d	ISO	
18 Feb 2014	5:17 pm I0218020.d	1260/1016 50	
18 Feb 2014	5:29 pm I0218021.d	14B0404-1305X TBA	
18 Feb 2014	5:47 pm I0218022.d	14B0404-1405X TBA	
18 Feb 2014	6:04 pm I0218023.d	14B0404-1505X TBA	
18 Feb 2014	6:22 pm I0218024.d	14B0404-1605X TBA	
18 Feb 2014	6:39 pm I0218025.d	14B0404-1705X TBA	
18 Feb 2014	6:57 pm I0218026.d	ISO	
18 Feb 2014	7:14 pm I0218027.d	1260/1016 100	
18 Feb 2014	7:27 pm I0218028.d	14B0404-0505X 1CU	
18 Feb 2014	7:44 pm I0218029.d	14B0404-0705X 1CU	
18 Feb 2014	8:02 pm I0218030.d	14B0404-0805X 1CU	
18 Feb 2014	8:19 pm I0218031.d	14B0404-0905X 1CU	
18 Feb 2014	8:36 pm I0218032.d	14B0404-1005X 1CU	
18 Feb 2014	8:54 pm I0218033.d	14B0404-1105X 1CU	
18 Feb 2014	9:11 pm I0218034.d	14B0404-1205X 1CU	
18 Feb 2014	9:29 pm I0218035.d	ISO	
18 Feb 2014	9:46 pm I0218036.d	1260/1016 50	
18 Feb 2014	9:59 pm I0218037.d	14B0155-02040X	
18 Feb 2014	10:11 pm I0218038.d	14B0155-030100X	
18 Feb 2014	10:23 pm I0218039.d	14B0155-070500X	
18 Feb 2014	10:36 pm I0218040.d	14B0155-08040X	
18 Feb 2014	10:48 pm I0218041.d	14B0155-0902000X	
18 Feb 2014	11:00 pm I0218042.d	14B0155-1101000X	
18 Feb 2014	11:13 pm I0218043.d	ISO	
18 Feb 2014	11:25 pm I0218044.d	1260/1016 100	
18 Feb 2014	11:38 pm I0218045.d	14B0155-1301000X	
18 Feb 2014	11:50 pm I0218046.d	14B0155-1402000X	
19 Feb 2014	12:02 am I0218047.d	14B0155-1502000X	
19 Feb 2014	12:15 am I0218048.d	14B0155-1601000X	
19 Feb 2014	12:27 am I0218049.d	14B0155-17040X	
19 Feb 2014	12:39 am I0218050.d	14B0155-19040X	
19 Feb 2014	12:52 am I0218051.d	B090316-MS1020X	
19 Feb 2014	1:04 am I0218052.d	B090316-MSD1020X	
19 Feb 2014	1:17 am I0218053.d	ISO	
19 Feb 2014	1:29 am I0218054.d	1260/1016 50	
19 Feb 2014	1:41 am I0218055.d	B090539-BLK10W TBA	
19 Feb 2014	1:54 am I0218056.d	B090539-BL10W TBA	
19 Feb 2014	2:06 am I0218057.d	B090539-BSD10W TBA	
19 Feb 2014	2:18 am I0218058.d	14B0262-010W TBA	
19 Feb 2014	2:31 am I0218059.d	ISO	
19 Feb 2014	2:43 am I0218060.d	1260/1016 100	

Analysis Log

Date		Filename	Lab ID	Sample Info
19 Feb 2014	2:56 am	I0218061.d	B090520-BLK10P/S	
19 Feb 2014	3:08 am	I0218062.d	B090520-B510P/S	
19 Feb 2014	3:20 am	I0218063.d	B090520-BSD10P/S	
19 Feb 2014	3:33 am	I0218064.d	14B0439-01	
19 Feb 2014	3:45 am	I0218065.d	14B0439-02	
19 Feb 2014	3:57 am	I0218066.d	ISO	
19 Feb 2014	4:10 am	I0218067.d	1260/1016 50	
19 Feb 2014	4:22 am	I0218068.d	B090443-BLK10TBA	
19 Feb 2014	4:35 am	I0218069.d	B090443-B5105X TBA	
19 Feb 2014	4:47 am	I0218070.d	B090443-BSD105X TBA	
19 Feb 2014	4:59 am	I0218071.d	14B0325-0105X TBA	
19 Feb 2014	5:12 am	I0218072.d	14B0326-0105X	
19 Feb 2014	5:24 am	I0218073.d	14B0326-0205X	
19 Feb 2014	5:36 am	I0218074.d	14B0326-0305X	
19 Feb 2014	5:49 am	I0218075.d	14B0339-0105X TBA	
19 Feb 2014	6:01 am	I0218076.d	14B0382-01	
19 Feb 2014	6:13 am	I0218077.d	ISO	
19 Feb 2014	6:26 am	I0218078.d	1260/1016 100	
19 Feb 2014	9:31 am	I0218079.d	ISO	
19 Feb 2014	9:44 am	I0218080.d	14B0326-0105X TBA	
19 Feb 2014	9:56 am	I0218081.d	14B0326-0205X TBA	
19 Feb 2014	10:09 am	I0218082.d	14B0326-0305X TBA	
19 Feb 2014	10:21 am	I0218083.d	14B0339-0105X TBA2	
19 Feb 2014	10:33 am	I0218084.d	14B0382-010TBA	
19 Feb 2014	10:46 am	I0218085.d	ISO	
19 Feb 2014	10:58 am	I0218086.d	1260/1016 50	
19 Feb 2014	11:11 am	I0218087.d	14B0155-02000X	
19 Feb 2014	11:23 am	I0218088.d	14B0155-030200X	
19 Feb 2014	11:35 am	I0218089.d	14B0155-0701000X	
19 Feb 2014	11:48 am	I0218090.d	14B0155-08080X	
19 Feb 2014	12:00 pm	I0218091.d	14B0155-0904000X	
19 Feb 2014	12:12 pm	I0218092.d	14B0155-1104000X	
19 Feb 2014	12:25 pm	I0218093.d	14B0155-1501000X	
19 Feb 2014	12:37 pm	I0218094.d	14B0155-19080X	
19 Feb 2014	12:50 pm	I0218095.d	ISO	
19 Feb 2014	1:02 pm	I0218096.d	1260/1016 100	
19 Feb 2014	1:13 pm	I0218097.d	14B0404-0805X 3CU	
19 Feb 2014	1:30 pm	I0218098.d	14B0404-0905X 3CU	
19 Feb 2014	1:48 pm	I0218099.d	14B0404-1105X 3CU	
19 Feb 2014	2:05 pm	I0218100.d	14B0404-1205X 3CU	
19 Feb 2014	2:23 pm	I0218101.d	14B0339-01025X TBA	
19 Feb 2014	2:40 pm	I0218102.d	ISO	
19 Feb 2014	2:58 pm	I0218103.d	ISO	
19 Feb 2014	3:15 pm	I0218104.d	1260/1016 100	
19 Feb 2014	3:59 pm	I0218105.d	ISO	
19 Feb 2014	4:11 pm	I0218106.d	14B0404-11010X 1CU	
19 Feb 2014	4:23 pm	I0218107.d	ISO	
19 Feb 2014	4:36 pm	I0218108.d	1260/1016 50	
19 Feb 2014	6:18 pm	I0218109.d	ISO	
19 Feb 2014	6:31 pm	I0218110.d	B090443-BLK10FLOR	
19 Feb 2014	6:43 pm	I0218111.d	B090443-B5105X FLOR	
19 Feb 2014	6:55 pm	I0218112.d	B090443-BSD105X FLOR	
19 Feb 2014	7:08 pm	I0218113.d	14B0339-0105X FLOR	
19 Feb 2014	7:20 pm	I0218114.d	ISO	
19 Feb 2014	7:33 pm	I0218115.d	1260/1016 100	
19 Feb 2014	7:45 pm	I0218116.d	ISO	
19 Feb 2014	7:57 pm	I0218117.d	B090497-BLK10P/S	
19 Feb 2014	8:10 pm	I0218118.d	B090497-B510P/S	
19 Feb 2014	8:22 pm	I0218119.d	B090497-BSD10P/S	
19 Feb 2014	8:35 pm	I0218120.d	14B0434-01	

Analysis Log

Date	Filename	Lab ID	Sample Info
19 Feb 2014	8:47 pm	I0218121.d	14B0434-07
19 Feb 2014	8:59 pm	I0218122.d	ISO
19 Feb 2014	9:12 pm	I0218123.d	1260/1016 50
19 Feb 2014	9:24 pm	I0218124.d	B090593-SLK10TBA
19 Feb 2014	9:37 pm	I0218125.d	B090593-BS105X TBA
19 Feb 2014	9:49 pm	I0218126.d	B090593-BS0105X TBA
19 Feb 2014	10:01 pm	I0218127.d	14B0456-0105X TBA
19 Feb 2014	10:14 pm	I0218128.d	14B0474-01
19 Feb 2014	10:26 pm	I0218129.d	14B0474-02
19 Feb 2014	10:39 pm	I0218130.d	14B0474-03
19 Feb 2014	10:51 pm	I0218131.d	14B0474-04
19 Feb 2014	11:03 pm	I0218132.d	14B0474-05
19 Feb 2014	11:16 pm	I0218133.d	14B0474-06
19 Feb 2014	11:28 pm	I0218134.d	ISO
19 Feb 2014	11:40 pm	I0218135.d	1260/1016 100
19 Feb 2014	11:53 pm	I0218136.d	14B0474-07
20 Feb 2014	12:05 am	I0218137.d	14B0474-08
20 Feb 2014	12:17 am	I0218138.d	14B0474-09
20 Feb 2014	12:30 am	I0218139.d	14B0474-10
20 Feb 2014	12:42 am	I0218140.d	14B0474-11
20 Feb 2014	12:55 am	I0218141.d	14B0474-12
20 Feb 2014	1:07 am	I0218142.d	14B0474-13
20 Feb 2014	1:19 am	I0218143.d	B090593-MS105X TBA
20 Feb 2014	1:32 am	I0218144.d	B090593-MS0105X TBA
20 Feb 2014	1:44 am	I0218145.d	ISO
20 Feb 2014	1:56 am	I0218146.d	1260/1016 50

Analysis Log

Date		Filename	Lab ID	Sample Info
20 Feb 2014	7:57 am	I0220001.d	ISO	
20 Feb 2014	8:09 am	I0220002.d	ISO	
20 Feb 2014	8:22 am	I0220003.d	ISO	
20 Feb 2014	8:34 am	I0220004.d	1260/1016 100	1312045
20 Feb 2014	8:46 am	I0220005.d	1254 100	1309167
20 Feb 2014	8:59 am	I0220006.d	1248 100	1308296
20 Feb 2014	9:11 am	I0220007.d	1242 100	1308268
20 Feb 2014	9:24 am	I0220008.d	1232/1268 100	1312248
20 Feb 2014	9:36 am	I0220009.d	1221/1262 100	1401037
20 Feb 2014	9:48 am	I0220010.d	ISO	
20 Feb 2014	10:01 am	I0220011.d	14B0474-02050X	
20 Feb 2014	10:13 am	I0220012.d	14B0474-03050X	
20 Feb 2014	10:26 am	I0220013.d	ISO	
20 Feb 2014	10:38 am	I0220014.d	1260/1016 50	

87

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 9-1260-010714C.M
 Title : 1260/1016 01/07/14 12/05/13
 Last Update : Wed Jan 08 10:32:13 2014
 Response Via : Initial Calibration

Calibration Files

5 =I0107011.d 10 =I0107012.d 20 =I0107013.d
 50 =I0107014.d 100 =I0107015.d 200 =I0107016.d

	Compound	5	10	20	50	100	200	Avg	SRSD
1)	S Tetrachloro-m...	1.978	1.984	1.986	1.993	2.192	2.129	2.052 E7	4.25
2)	S Decachlorobip...	1.805	1.581	1.511	1.471	1.618	1.618	1.602 E7	6.63
3)	L1 1016{1}			8.011	7.698	7.629	6.888	7.392 E5	7.47
4)	L1 1016{2}			8.808	8.311	9.309	8.752	8.701 E5	2.96
5)	L1 1016{3}			5.861	6.267	6.459	6.084	6.122 E5	3.99
6)	L1 1016{4}			3.993	3.612	3.775	3.589	3.700 E5	5.05
7)	L1 1016{5}			5.228	4.721	4.829	4.577	4.763 E5	6.23
8)	L7 1260{1}			9.852	8.867	9.272	8.729	9.050 E5	5.79
9)	L7 1260{2}			1.461	1.341	1.410	1.342	1.373 E6	4.41
10)	L7 1260{3}			9.071	7.838	8.191	7.751	8.074 E5	7.50
11)	L7 1260{4}			8.897	8.311	8.810	8.392	8.526 E5	3.60
12)	L7 1260{5}			1.784	1.786	1.804	1.864	1.822 E6	2.33

Signal #2 Calibration Files

5 =I0107011.d 10 =I0107012.d 20 =I0107013.d
 50 =I0107014.d 100 =I0107015.d 200 =I0107016.d

	Compound	5	10	20	50	100	200	Avg	SRSD
1)	S Tetrachloro-m...	1.064	1.046	1.039	1.048	1.159	1.134	1.088 E7	4.57
2)	S Decachlorobip...	1.044	0.956	0.891	0.862	0.951	0.946	0.941 E7	6.10
3)	L1 1016{1}			1.795	1.691	1.711	1.545	1.647 E5	7.59
4)	L1 1016{2}			5.195	4.883	5.065	4.701	4.876 E5	5.46
5)	L1 1016{3}			3.589	3.276	3.457	3.163	3.314 E5	6.24
6)	L1 1016{4}			2.170	2.062	2.134	1.979	2.056 E5	4.82
7)	L1 1016{5}			3.150	2.843	2.824	2.563	2.775 E5	9.38
8)	L7 1260{1}			6.289	5.275	5.362	4.968	5.340 E5	10.65
9)	L7 1260{2}			7.072	6.211	6.258	5.795	6.201 E5	9.88
10)	L7 1260{3}			5.288	4.659	4.665	4.280	4.615 E5	9.41
11)	L7 1260{4}			5.956	5.246	5.285	4.886	5.229 E5	8.85
12)	L7 1260{5}			1.153	1.051	1.096	1.049	1.077 E6	4.52

{#} = Out of Range ### Number of calibration levels exceeded format ##

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 9-1260-010714C.M
 Title : 1260/1016 01/07/14 12/05/13
 Last Update : Wed Jan 08 10:32:13 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\010714\I0107011.d
2	10	10	0	C:\msdchem\1\data\010714\I0107012.d
3	20	20	0	C:\msdchem\1\data\010714\I0107013.d
4	50	50	0	C:\msdchem\1\data\010714\I0107014.d
5	100	100	0	C:\msdchem\1\data\010714\I0107015.d
6	200	200	0	C:\msdchem\1\data\010714\I0107016.d
7	250	250	0	C:\msdchem\1\data\010714\I0107017.d

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Jan 08 10:32 2014	Jan 08 10:32 2014	7 Jan 2014 1:47 pm
2	10	Jan 08 10:32 2014	Jan 08 10:32 2014	7 Jan 2014 2:00 pm
3	20	Jan 08 10:32 2014	Jan 08 10:32 2014	7 Jan 2014 2:12 pm
4	50	Jan 08 10:32 2014	Jan 08 10:32 2014	7 Jan 2014 2:23 pm
5	100	Jan 08 10:32 2014	Jan 08 10:32 2014	7 Jan 2014 2:37 pm
6	200	Jan 08 10:32 2014	Jan 08 10:32 2014	7 Jan 2014 2:49 pm
7	250	Jan 08 10:32 2014	Jan 08 10:32 2014	7 Jan 2014 3:02 pm

9-1260-010714C.M Wed Jan 08 10:33:00 2014

Data Path : C:\msdchem\1\data\G10714\
 Data File : 10107016.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Jan 2014 2:49 pm
 Operator : JMB
 Sample : 1260/1016 200 Inst : ECD 9
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: S-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Jan 08 10:32:12 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\9-1260-010714C.M
 Quant Title : 1260/1016 01/07/14 12/05/13
 QLast Update : Wed Jan 08 10:32:12 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	3.163	3.559	4257.2E6	2267.7E6	210.068	211.685
Spiked Amount	200.000		Recovery		105.03	105.84
2) S Decachlor...	7.218	7.919	3235.9E6	1391.5E6	202.677	201.042
Spiked Amount	200.000		Recovery	=	101.343	100.52
Target Compounds						
3) L1 1016(1)	3.730	4.528	137.8E6	30898896	177.069	178.372
4) L1 1016(2)	4.098	4.700	175.0E6	94016226	200.992	196.251
5) L1 1016(3)	4.201	4.812	121.7E6	63269888	196.390	183.895
6) L1 1016(4)	4.251	4.900	71775780	39589091	189.216	186.580
7) L1 1016(5)	4.520	5.200	93541897	51250827	185.851	174.377
Sum 1016			597.8E6	279.0E6	949.518	909.476
Average 1016					189.904	181.895
8) L7 1260(1)	5.486	6.220	174.8E6	99358533	187.114	176.111
9) L7 1260(2)	5.708	6.359	268.5E6	116.0E6	191.224	178.053
10) L7 1260(3)	6.016	6.659	154.6E6	85608602	184.810	175.768
11) L7 1260(4)	6.196	6.846	167.8E6	97722102	193.526	177.818
12) L7 1260(5)	6.405	6.984	372.8E6	209.8E6	209.008	190.732
Sum 1260			1138.3E6	609.5E6	964.782	890.482
Average 1260					192.952	178.696

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Method Path : C:\msdchen\1\methods\PCB Methods\
 Method File : 9-1254-010714C.M
 Title : 1254 01/07/14 09/17/13
 Last Update : Wed Jan 08 10:45:49 2014
 Response Via : Initial Calibration

Calibration Files

5 =I0107011.d 10 =I0107012.d 20 =I0107013.d
 50 =I0107014.d 100 =I0107015.d 200 =I0107016.d

	Compound	5	10	20	50	100	200	Avg		RSD
1)	S Tetrachloro-m...	1.978	1.984	1.986	1.993	2.192	2.129	2.052	E7	4.25
2)	S Decachlorobip...	1.805	1.581	1.511	1.471	1.618	1.618	1.602	E7	6.63
3)	L6 1254{1}			6.893	6.303	6.159	5.860	6.189	E5	7.36
4)	L6 1254{2}			1.224	1.114	1.094	1.045	1.100	E6	7.12
5)	L6 1254{3}			1.236	1.116	1.136	1.100	1.134	E6	5.30
6)	L6 1254{4}			9.270	8.708	8.676	8.383	8.654	E5	4.59
7)	L6 1254{5}			1.251	1.181	1.186	1.149	1.179	E6	3.96

Signal #2 Calibration Files

5 =I0107011.d 10 =I0107012.d 20 =I0107013.d
 50 =I0107014.d 100 =I0107015.d 200 =I0107016.d

	Compound	5	10	20	50	100	200	Avg		RSD
1)	S Tetrachloro-m...	1.064	1.046	1.039	1.048	1.159	1.134	1.088	E7	4.57
2)	S Decachlorobip...	1.044	0.956	0.891	0.862	0.951	0.946	0.941	E7	6.10
3)	L6 1254{1}			4.592	4.105	3.974	3.728	4.306	E5	9.46
4)	L6 1254{2}			5.426	4.827	4.554	4.292	4.655	E5	10.71
5)	L6 1254{3}			7.720	6.993	6.799	6.456	6.849	E5	8.19
6)	L6 1254{4}			5.612	4.999	4.847	4.416	4.819	E5	11.29
7)	L6 1254{5}			6.465	5.859	6.686	6.334	6.318	E5	6.28

(#) - Out of Range ### Number of calibration levels exceeded format ###

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 9-1254-010714C.M
 Title : 1254 01/07/14 09/17/13
 Last Update : Wed Jan 08 10:45:49 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\010714\I0107011.d
2	10	10	0	C:\msdchem\1\data\010714\I0107012.d
3	20	20	0	C:\msdchem\1\data\010714\I0107013.d
4	50	50	0	C:\msdchem\1\data\010714\I0107014.d
5	100	100	0	C:\msdchem\1\data\010714\I0107015.d
6	200	200	0	C:\msdchem\1\data\010714\I0107016.d
7	250	250	0	C:\msdchem\1\data\010714\I0107017.d

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 1:47 pm
2	10	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 2:00 pm
3	20	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 2:12 pm
4	50	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 2:25 pm
5	100	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 2:37 pm
6	200	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 2:49 pm
7	250	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 3:02 pm

9-1254-010714C.M Wed Jan 08 10:46:18 2014

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0474
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD 9	Calibration:	1400029
Lab File ID:	10218123.d	Calibration Date:	01/07/14 00:00
Sequence:	S005563	Injection Date:	02/19/14
Lab Sample ID:	S005563-CCV1	Injection Time:	21:12

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	50.0	50.6				1.1	15
Aroclor-1016 [2C]	A	50.0	43.3				-13.4	15
Aroclor-1260	A	50.0	54.4				8.8	15
Aroclor-1260 [2C]	A	50.0	56.4				12.8	15
Decachlorobiphenyl	A	50.0	58.1	1.60163E+07	1.8606E+07		16.2	
Decachlorobiphenyl [2C]	A	50.0	45.0	9411933	8468000		-10.0	
Tetrachloro-m-xylene	A	50.0	53.1	2.051732E+07	2.1804E+07		6.3	
Tetrachloro-m-xylene [2C]	A	50.0	48.7	1.087818E+07	1.0586E+07		-2.7	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

93

Data Path : C:\msdchem\1\data\021814\
 Data File : 10218123.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2014 9:12 pm
 Operator : JMB
 Sample : 1260/1016 50 Inst : ECD 9
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Feb 20 08:07:04 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\9-1260-C12814.M
 Quant Title : 1260/1016 01/07/14 12/05/13
 QLast Update : Mon Jan 27 10:46:22 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachloro...	2.916	3.303	1090.2E6	529.3E6	53.137	48.655
Spiked Amount	200.000		Recovery	=	26.57%	24.33%
2) S Decachloro...	6.996	7.637	930.3E6	423.4E6	58.085	44.983
Spiked Amount	200.000		Recovery	=	29.04%	22.49%
Target Compounds						
3) L1 1016(1)	3.467	4.245	38724750	7870984	52.386	47.800
4) L1 1016(2)	3.825	4.416	39794552	24853267	45.735	50.970
5) L1 1016(3)	3.926	4.526	30396652	13344976	49.655	40.866
6) L1 1016(4)	3.973	4.611	21612116	6563461	58.411	31.920 #
7) L1 1016(5)	4.236	4.906	22229840	12460599	46.674	44.901
Sum 1016			152.8E6	65293287	252.862	216.456
Average 1016					50.572	43.291
8) L7 1260(1)	5.190	5.946	48733154	28800965	53.849	53.871
9) L7 1260(2)	5.415	6.101	62537123	35388462	45.535	57.072 #
10) L7 1260(3)	5.728	6.417	45908846	27125677	56.358	58.774
11) L7 1260(4)	5.924	6.611	45748002	28991159	53.658	55.440
12) L7 1260(5)	6.152	6.759	113.2E6	61147309	62.161	56.797
Sum 1260			316.2E6	161.5E6	272.062	281.954
Average 1260					54.412	56.391

{f}=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0474
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD 9	Calibration:	1400029
Lab File ID:	10218135.d	Calibration Date:	01/07/14 00.00
Sequence:	S005563	Injection Date:	02/19/14
Lab Sample ID:	S005563-CCV2	Injection Time:	23:40

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	102				1.9	15
Aroclor-1016 [2C]	A	100	88.8				-11.2	15
Aroclor-1260	A	100	117				17.2	15
Aroclor-1260 [2C]	A	100	116				16.0	15
Decachlorobiphenyl	A	100	119	1.60163E+07	1.9072E+07		19.1	
Decachlorobiphenyl [2C]	A	100	92.5	9411933	8704000		-7.5	
Tetrachloro-m-xylene	A	100	111	2.051732E+07	2.281E+07		11.2	
Tetrachloro-m-xylene [2C]	A	100	101	1.087818E+07	1.102E+07		1.3	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data Path : C:\msdchem\1\data\021814\
 Data File : I0218135.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2014 11:40 pm
 Operator : JMB
 Sample : 1260/1016 100 Inst : ECD 9
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Feb 20 08:07:40 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\9-1260-012814.m
 Quant Title : 1260/1016 01/07/14 12/05/13
 QLast Update : Mon Jan 27 10:46:22 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.917	3.304	2281.0E6	1102.0E6	111.173	101.307
Spiked Amount	200.000		Recovery	=	55.59%	50.65%
2) S Decachlor...	6.995	7.636	1907.2E6	870.4E6	119.077	92.485
Spiked Amount	200.000		Recovery	=	59.54%	46.24%
Target Compounds						
3) L1 1016(1)	3.467	4.245	74798378	15298683	101.165	92.907
4) L1 1016(2)	3.825	4.417	86073211	50501053	98.923	103.575
5) L1 1016(3)	3.926	4.526	60985885	28724291	99.625	86.663
6) L1 1016(4)	3.973	4.612	42690466	15209857	115.379	73.970 #
7) L1 1016(5)	4.236	4.907	44989121	24173300	94.460	87.106
Sum 1016			309.5E6	133.9E6	509.573	444.221
Average 1016					101.915	88.844
8) L7 1260(1)	5.189	5.945	99679388	59952930	110.144	112.140
9) L7 1260(2)	5.414	6.100	132.7E6	70036594	96.603	112.950
10) L7 1260(3)	5.727	6.417	93792521	54377577	116.162	117.822
11) L7 1260(4)	5.923	6.611	94087210	57638002	110.354	110.221
12) L7 1260(5)	6.151	6.759	278.6E6	136.3E6	152.953	126.641
Sum 1260			698.9E6	378.356	586.216	579.774
Average 1260					117.243	115.955 ↑

61207.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order	14B0474
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD 9	Calibration:	1400029
Lab File ID:	10220004.d	Calibration Date:	01/07/14 00:00
Sequence:	S005564	Injection Date:	02/20/14
Lab Sample ID:	S005564-CCV1	Injection Time:	08:34

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	98.1				-1.9	15
Aroclor-1016 [2C]	A	100	85.6				-14.4	15
Aroclor-1260	A	100	106				6.2	15
Aroclor-1260 [2C]	A	100	105				4.9	15
Decachlorobiphenyl	A	100	116	1.60163E+07	1.85E+07		15.5	
Decachlorobiphenyl [2C]	A	100	89.0	9411933	8378000		-11.0	
Tetrachloro-m-xylene	A	100	107	2.051732E+07	2.1971E+07		7.1	
Tetrachloro-m-xylene [2C]	A	100	96.5	1.087818E+07	1.0501E+07		-3.5	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0474
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD 9	Calibration:	1400029
Lab File ID:	I0220014.d	Calibration Date:	01/07/14 00:00
Sequence:	S005564	Injection Date:	02/20/14
Lab Sample ID:	S005564-CCV2	Injection Time:	10:38

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	50.0	47.9				-4.2	15
Aroclor-1016 [2C]	A	50.0	43.3				-13.3	15
Aroclor-1260	A	50.0	52.1				4.2	15
Aroclor-1260 [2C]	A	50.0	55.0				10.1	15
Decachlorobiphenyl	A	50.0	56.3	1.60163E+07	1.8022E+07		12.5	
Decachlorobiphenyl [2C]	A	50.0	43.7	9411933	8224000		-12.6	
Tetrachloro-m-xylene	A	50.0	51.5	2.051732E+07	2.1116E+07		2.9	
Tetrachloro-m-xylene [2C]	A	50.0	46.8	1.087818E+07	1.0192E+07		-6.3	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

T-ECM 98

323

Analysis Log

Date	Filename	Lab ID	Sample Info
18 Feb 2014	6:44 am J0218001.D	ISO	
18 Feb 2014	6:57 am J0218002.D	ISO	
18 Feb 2014	7:09 am J0218003.D	ISO	
18 Feb 2014	7:21 am J0218004.D	1260/1016 100	1312045
18 Feb 2014	7:34 am J0218005.D	1254 100	1309167
18 Feb 2014	7:46 am J0218006.D	1248 100	1308296
18 Feb 2014	7:59 am J0218007.D	1242 100	1308268
18 Feb 2014	8:11 am J0218008.D	1232/1268 100	1312248
18 Feb 2014	8:24 am J0218009.D	1221/1262 100	1401037
18 Feb 2014	8:36 am J0218010.D	ISO	
18 Feb 2014	9:54 am J0218011.D	ISO	
18 Feb 2014	10:07 am J0218012.D	14B0403-15@5X RR	
18 Feb 2014	10:19 am J0218013.D	14B0154-01@1000X	
18 Feb 2014	10:32 am J0218014.D	ISO	
18 Feb 2014	10:44 am J0218015.D	1260/1016 50	
18 Feb 2014	10:56 am J0218016.D	B090468-BLK1	
18 Feb 2014	11:09 am J0218017.D	B090468-BS1@5X	
18 Feb 2014	11:21 am J0218018.D	B090468-BSD1@5X	
18 Feb 2014	11:34 am J0218019.D	14B0154-14RE1@5X	
18 Feb 2014	11:46 am J0218020.D	ISO	
18 Feb 2014	11:59 am J0218021.D	1260/1016 100	
18 Feb 2014	12:29 pm J0218022.D	ISO	
18 Feb 2014	12:41 pm J0218023.D	14B0154-14RE1@25X	
18 Feb 2014	12:54 pm J0218024.D	ISO	
18 Feb 2014	1:06 pm J0218025.D	1260/1016 50	
18 Feb 2014	2:36 pm J0218026.D	ISO	
18 Feb 2014	2:48 pm J0218027.D	14B0407-01@5X	
18 Feb 2014	3:01 pm J0218028.D	14B0407-02@5X	
18 Feb 2014	3:13 pm J0218029.D	14B0407-03@5X	
18 Feb 2014	3:25 pm J0218030.D	14B0407-04@5X	
18 Feb 2014	3:38 pm J0218031.D	14B0407-05@5X	
18 Feb 2014	3:50 pm J0218032.D	14B0407-06@5X	
18 Feb 2014	4:03 pm J0218033.D	14B0407-07@5X	
18 Feb 2014	4:15 pm J0218034.D	14B0407-08@5X	
18 Feb 2014	4:28 pm J0218035.D	14B0407-09@5X	
18 Feb 2014	4:40 pm J0218036.D	14B0407-10@5X	
18 Feb 2014	4:52 pm J0218037.D	B090468-MS1@5X	
18 Feb 2014	5:05 pm J0218038.D	B090468-MSD1@5X	
18 Feb 2014	5:17 pm J0218039.D	ISO	
18 Feb 2014	5:35 pm J0218040.D	1260/1016 100	
18 Feb 2014	5:47 pm J0218041.D	B090417-BLK1	
18 Feb 2014	6:00 pm J0218042.D	B090417-BS1@5X	
18 Feb 2014	6:12 pm J0218043.D	B090417-BSD1@5X	
18 Feb 2014	6:25 pm J0218044.D	14B0226-01@5X	
18 Feb 2014	6:37 pm J0218045.D	14B0226-02@5X	
18 Feb 2014	6:50 pm J0218046.D	14B0226-03@5X	
18 Feb 2014	7:02 pm J0218047.D	14B0226-04@5X	
18 Feb 2014	7:14 pm J0218048.D	14B0226-05@5X	
18 Feb 2014	7:27 pm J0218049.D	14B0226-06@5X	
18 Feb 2014	7:39 pm J0218050.D	14B0226-07@5X	
18 Feb 2014	7:52 pm J0218051.D	14B0226-08@5X	
18 Feb 2014	8:04 pm J0218052.D	14B0226-09@5X	
18 Feb 2014	8:17 pm J0218053.D	14B0226-10@5X	
18 Feb 2014	8:29 pm J0218054.D	ISO	
18 Feb 2014	8:42 pm J0218055.D	1260/1016 50	
18 Feb 2014	8:54 pm J0218056.D	14B0226-11@5X	
18 Feb 2014	9:07 pm J0218057.D	14B0226-12@5X	
18 Feb 2014	9:19 pm J0218058.D	14B0226-13@5X	
18 Feb 2014	9:31 pm J0218059.D	14B0226-14@5X	
18 Feb 2014	9:44 pm J0218060.D	14B0226-15@5X	
18 Feb 2014	9:56 pm J0218061.D	14B0226-16@5X	
18 Feb 2014	10:09 pm J0218062.D	14B0226-17@5X	
18 Feb 2014	10:21 pm J0218063.D	14B0226-18@5X	
18 Feb 2014	10:34 pm J0218064.D	14B0226-19@5X	
18 Feb 2014	10:46 pm J0218065.D	14B0226-20@5X	

Analysis Log

Date	Filename	Lab ID	Sample Info
18 Feb 2014	10:58 pm J0218066.D	B090417-MS1@5X	
18 Feb 2014	11:11 pm J0218067.D	B090417-MSD1@5X	
18 Feb 2014	11:23 pm J0218068.D	ISO	
18 Feb 2014	11:36 pm J0218069.D	1260/1016 100	
18 Feb 2014	11:40 pm J0218070.D	B090468-BLK1@TBA	
19 Feb 2014	12:01 am J0218071.D	B090468-BS1@5X TBA	
19 Feb 2014	12:13 am J0218072.D	B090468-BSD1@5X TBA	
19 Feb 2014	12:26 am J0218073.D	14B0407-06@5X TBA	
19 Feb 2014	12:38 am J0218074.D	14B0407-07@5X TBA	
19 Feb 2014	12:50 am J0218075.D	14B0407-08@5X TBA	
19 Feb 2014	1:03 am J0218076.D	ISO	
19 Feb 2014	1:15 am J0218077.D	1260/1016 50	
19 Feb 2014	1:28 am J0218078.D	B090465-BLK1	
19 Feb 2014	1:40 am J0218079.D	B090465-BS1@5X	
19 Feb 2014	1:53 am J0218080.D	B090465-BSD1@5X	
19 Feb 2014	2:05 am J0218081.D	14B0227-01@5X	
19 Feb 2014	2:17 am J0218082.D	14B0227-02@5X	
19 Feb 2014	2:30 am J0218083.D	14B0227-03@5X	
19 Feb 2014	2:42 am J0218084.D	14B0227-04@5X	
19 Feb 2014	2:55 am J0218085.D	14B0227-05@5X	
19 Feb 2014	3:07 am J0218086.D	14B0227-06@5X	
19 Feb 2014	3:19 am J0218087.D	14B0227-07@5X	
19 Feb 2014	3:32 am J0218088.D	14B0227-08@5X	
19 Feb 2014	3:44 am J0218089.D	14B0227-09@5X	
19 Feb 2014	3:57 am J0218090.D	14B0227-10@5X	
19 Feb 2014	4:09 am J0218091.D	ISO	
19 Feb 2014	4:22 am J0218092.D	1260/1016 100	
19 Feb 2014	4:34 am J0218093.D	14B0227-11@5X	
19 Feb 2014	4:46 am J0218094.D	14B0227-12@5X	
19 Feb 2014	4:59 am J0218095.D	14B0227-13@5X	
19 Feb 2014	5:11 am J0218096.D	14B0227-14@5X	
19 Feb 2014	5:24 am J0218097.D	14B0227-15@5X	
19 Feb 2014	5:36 am J0218098.D	14B0227-16@5X	
19 Feb 2014	5:49 am J0218099.D	14B0227-17@5X	
19 Feb 2014	6:01 am J0218100.D	14B0227-18@5X	
19 Feb 2014	6:14 am J0218101.D	14B0227-19@5X	
19 Feb 2014	6:26 am J0218102.D	14B0227-20@5X	
19 Feb 2014	6:38 am J0218103.D	B090465-MS1@5X	
19 Feb 2014	6:51 am J0218104.D	B090465-MSD1@5X	
19 Feb 2014	7:03 am J0218105.D	ISO	
19 Feb 2014	7:16 am J0218106.D	1260/1016 50	
19 Feb 2014	9:33 am J0218107.D	ISO	
19 Feb 2014	9:45 am J0218108.D	B0904065-BSD1@5X RR	
19 Feb 2014	9:57 am J0218109.D	ISO	
19 Feb 2014	10:10 am J0218110.D	1260/1016 100	
19 Feb 2014	11:45 am J0218111.D	ISO	
19 Feb 2014	11:57 am J0218112.D	14B0404-05@5X 3CU	
19 Feb 2014	12:15 pm J0218113.D	14B0404-07@5X 3CU	
19 Feb 2014	12:32 pm J0218114.D	ISO	
19 Feb 2014	12:50 pm J0218115.D	B090492-BLK1	
19 Feb 2014	1:02 pm J0218116.D	B090492-BS1	
19 Feb 2014	1:15 pm J0218117.D	B090492-BSD1	
19 Feb 2014	1:27 pm J0218118.D	14B0430-06	
19 Feb 2014	1:45 pm J0218119.D	14B0430-07	
19 Feb 2014	2:02 pm J0218120.D	ISO	
19 Feb 2014	2:20 pm J0218121.D	1260/1016 50	
19 Feb 2014	2:48 pm J0218122.D	ISO	
19 Feb 2014	3:05 pm J0218123.D	14B0273-21	
19 Feb 2014	3:23 pm J0218124.D	14B0273-22	
19 Feb 2014	3:40 pm J0218125.D	14B0273-23	
19 Feb 2014	3:58 pm J0218126.D	14B0273-24	
19 Feb 2014	4:16 pm J0218127.D	B090492-MS1	
19 Feb 2014	4:33 pm J0218128.D	B090492-MSD1	
19 Feb 2014	4:46 pm J0218129.D	ISO	
19 Feb 2014	4:58 pm J0218130.D	1260/1016 100	

108

Analysis Log

Date	Filename	Lab ID	Sample Info
19 Feb 2014	9:53 pm J0218131.D	ISO	
19 Feb 2014	10:05 pm J0218132.D	B090513-BLK1@P/S	
19 Feb 2014	10:18 pm J0218133.D	B090513-BL1@P/S	
19 Feb 2014	10:30 pm J0218134.D	B090513-BSD1@P/S	
19 Feb 2014	10:42 pm J0218135.D	14B0434-02	
19 Feb 2014	10:55 pm J0218136.D	14B0434-03	
19 Feb 2014	11:07 pm J0218137.D	14B0434-04	
19 Feb 2014	11:20 pm J0218138.D	14B0434-05	
19 Feb 2014	11:32 pm J0218139.D	14B0434-06	
19 Feb 2014	11:45 pm J0218140.D	14B0472-01	
19 Feb 2014	11:57 pm J0218141.D	14B0472-02	
20 Feb 2014	12:09 am J0218142.D	14B0472-03	
20 Feb 2014	12:22 am J0218143.D	ISO	
20 Feb 2014	12:34 am J0218144.D	1260/1016 50	
20 Feb 2014	12:47 am J0218145.D	14B0472-04	
20 Feb 2014	12:59 am J0218146.D	14B0472-05	
20 Feb 2014	1:12 am J0218147.D	14B0472-06	
20 Feb 2014	1:24 am J0218148.D	14B0472-07	
20 Feb 2014	1:36 am J0218149.D	14B0472-08	
20 Feb 2014	1:49 am J0218150.D	14B0472-09	
20 Feb 2014	2:01 am J0218151.D	14B0472-10	
20 Feb 2014	2:14 am J0218152.D	14B0472-11	
20 Feb 2014	2:26 am J0218153.D	14B0472-12	
20 Feb 2014	2:38 am J0218154.D	14B0472-13	
20 Feb 2014	2:51 am J0218155.D	B090513-MS1@P/S	
20 Feb 2014	3:03 am J0218156.D	B090513-MSD1@P/S	
20 Feb 2014	3:16 am J0218157.D	ISO	
20 Feb 2014	3:28 am J0218158.D	1260/1016 100	
20 Feb 2014	10:25 am J0218159.D	ISO	
20 Feb 2014	10:37 am J0218160.D	1260/1016 100	
20 Feb 2014	10:50 am J0218161.D	14B0474-04@1000X	
20 Feb 2014	11:02 am J0218162.D	14B0474-05@100X	
20 Feb 2014	11:14 am J0218163.D	14B0474-06@1000X	
20 Feb 2014	11:27 am J0218164.D	14B0474-07@1000X	
20 Feb 2014	11:39 am J0218165.D	14B0474-08@10X	
20 Feb 2014	11:52 am J0218166.D	14B0474-09@10X	
20 Feb 2014	12:04 pm J0218167.D	14B0474-10@200X	
20 Feb 2014	12:17 pm J0218168.D	14B0474-11@1000X	
20 Feb 2014	12:29 pm J0218169.D	14B0474-12@1000X	
20 Feb 2014	12:42 pm J0218170.D	14B0474-13@10X	
20 Feb 2014	12:54 pm J0218171.D	14B0339-01@5X FLOR TBA	
20 Feb 2014	1:07 pm J0218172.D	ISO	
20 Feb 2014	1:19 pm J0218173.D	1260/1016 50	

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 10-1260-121213C.M
 Title : 1260/1016 12/12/13 12/05/13
 Last Update : Thu Dec 12 15:41:50 2013
 Response Via : Initial Calibration

Calibration Files

5 =J1212011.D 10 =J1212012.D 20 =J1212013.D
 50 =J1212014.D 100 =J1212015.D 200 =J1212016.D

	Compound	5	10	20	50	100	200	Avg	%RSD
1)	S Tetrachloro-m...	1.146	1.150	1.151	1.198	1.237	1.181	1.181	27 2.90
2)	S Decachlorobip...	1.047	1.011	0.981	1.000	1.017	0.943	1.001	E7 3.22
3)	L1 1016{1}			4.594	4.278	4.240	3.869	4.183	E5 6.98
4)	L1 1016{2}			1.777	1.685	1.649	1.561	1.636	E5 6.45
5)	L1 1016{3}			5.196	5.048	5.146	5.013	5.099	E5 1.44
6)	L1 1016{4}			2.280	2.214	2.211	2.086	2.181	E5 3.64
7)	L1 1016{5}			3.045	2.935	2.856	2.627	2.835	E5 5.93
8)	L7 1260{1}			6.074	5.750	5.650	5.193	5.617	E5 5.94
9)	L7 1260{2}			9.084	8.650	8.660	8.002	8.555	E5 4.66
10)	L7 1260{3}			5.527	5.239	5.203	4.746	5.140	E5 5.70
11)	L7 1260{4}			5.966	5.734	5.638	5.182	5.599	E5 5.23
12)	L7 1260{5}			1.225	1.233	1.279	1.187	1.239	E6 2.96

Signal #2 Calibration Files

5 =J1212011.D 10 =J1212012.D 20 =J1212013.D
 50 =J1212014.D 100 =J1212015.D 200 =J1212016.D

	Compound	5	10	20	50	100	200	Avg	%RSD
1)	S Tetrachloro-m...	1.395	1.378	1.353	1.365	1.386	1.315	1.360	E7 2.15
2)	S Decachlorobip...	1.088	1.024	0.972	0.974	1.009	0.925	0.998	E7 5.10
3)	L1 1016{1}			2.308	2.179	2.085	1.896	2.072	E5 8.71
4)	L1 1016{2}			6.652	6.220	6.200	5.922	6.199	E5 4.57
5)	L1 1016{3}			2.873	2.735	2.691	2.501	2.670	E5 5.59
6)	L1 1016{4}			2.778	2.589	2.465	2.232	2.460	E5 9.53
7)	L1 1016{5}			3.812	3.747	3.525	3.222	3.516	E5 7.60
8)	L7 1260{1}			7.426	6.939	6.808	6.229	6.768	E5 6.87
9)	L7 1260{2}			8.662	8.088	7.967	7.248	7.898	E5 6.90
10)	L7 1260{3}			6.475	5.981	5.865	5.295	5.826	E5 7.80
11)	L7 1260{4}			7.094	6.687	6.614	5.957	6.520	E5 6.67
12)	L7 1260{5}			1.394	1.356	1.374	1.260	1.343	E6 3.84

{#} = Out of Range ### Number of calibration levels exceeded format ###

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 10-1260-121213C.M
 Title : 1260/1016 12/12/13 12/05/13
 Last Update : Thu Dec 12 15:41:50 2013
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\121213\J1212011.D
2	10	10	0	C:\msdchem\1\data\121213\J1212012.D
3	20	20	0	C:\msdchem\1\data\121213\J1212013.D
4	50	50	0	C:\msdchem\1\data\121213\J1212014.D
5	100	100	0	C:\msdchem\1\data\121213\J1212015.D
6	200	200	0	C:\msdchem\1\data\121213\J1212016.D
7	250	250	0	C:\msdchem\1\data\121213\J1212017.D

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Dec 12 15:41 2013	Dec 12 15:41 2013	12 Dec 2013 1:45 pm
2	10	Dec 12 15:41 2013	Dec 12 15:41 2013	12 Dec 2013 1:57 pm
3	20	Dec 12 15:41 2013	Dec 12 15:41 2013	12 Dec 2013 2:10 pm
4	50	Dec 12 15:41 2013	Dec 12 15:41 2013	12 Dec 2013 2:22 pm
5	100	Dec 12 15:41 2013	Dec 12 15:41 2013	12 Dec 2013 2:34 pm
6	200	Dec 12 15:41 2013	Dec 12 15:41 2013	12 Dec 2013 2:47 pm
7	250	Dec 12 15:41 2013	Dec 12 15:41 2013	12 Dec 2013 2:59 pm

10-1260-121213C.M Thu Dec 12 15:43:44 2013

Data Path : C:\msdchem\1\data\121213\
 Data File : J1212G16.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Dec 2013 2:47 pm
 Operator : JMB
 Sample : 1260/1016 200 Inst : ECD10
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Dec 12 15:41:49 2013
 Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-121213C.M
 Quant Title : 1260/1016 12/12/13 12/05/13
 QLast Update : Thu Dec 12 15:41:49 2013
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.899	3.326	2361.3E6	2630.9E6	200.833	191.296
Spiked Amount	200.000		Recovery	-	100.42%	95.65%
2) S Decachlor...	6.972	7.667	1885.6E6	1849.7E6	186.491	182.519
Spiked Amount	200.000		Recovery	-	93.25%	91.26%
Target Compounds						
3) L1 1016(1)	3.448	4.274	77771259	37917955	177.939	173.118
4) L1 1016(2)	3.606	4.443	31225901	118.4E6	183.297	186.309
5) L1 1016(3)	3.803	4.639	100.3E6	50011135	195.421	180.801
6) L1 1016(4)	3.951	4.710	41719734	44630949	186.668	170.958
7) L1 1016(5)	4.214	4.936	52533198	64449409	178.363	174.437
Sum 1016			303.5E6	315.5E6	921.688	885.622
Average 1016					184.338	177.124
8) L7 1260(1)	5.162	5.972	103.9E6	124.6E6	178.302	176.503
9) L7 1260(2)	5.381	6.121	160.0E6	145.0E6	181.904	175.943
10) L7 1260(3)	5.697	6.435	94919824	105.9E6	178.323	173.410
11) L7 1260(4)	5.893	6.629	103.6E6	119.1E6	179.346	175.241
12) L7 1260(5)	6.121	6.774	237.5E6	252.0E6	190.586	183.402
Sum 1260			699.9E6	746.6E6	908.461	884.499
Average 1260					181.692	176.900

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

104

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 10-1254-012814C.M
 Title : 1254 01/28/14 09/17/13
 Last Update : Wed Jan 29 11:51:55 2014
 Response Via : Initial Calibration

Calibration Files

5 =J1212011.D 10 =J1212012.D 20 =J1212013.D
 50 =J1212014.D 100 =J1212015.D 200 =J1212016.D

	Compound	5	10	20	50	100	200	Avg		%RSD
1)	S Tetrachloro-m...	1.146	1.150	1.151	1.195	1.237	1.181	1.161	E7	2.90
2)	S Decachlorobip...	1.047	1.011	0.981	1.000	1.017	0.943	1.001	E7	3.22
3)	L6 1254{1}			4.292	3.980	3.958	3.941	4.022	E5	3.77
4)	L6 1254{2}			4.312	4.118	4.166	4.208	4.210	E5	1.76
5)	L6 1254{3}			7.317	6.985	7.158	7.328	7.238	E5	2.32
6)	L6 1254{4}			5.366	5.183	5.235	5.357	5.315	E5	1.93
7)	L6 1254{5}			7.958	7.626	7.712	7.903	7.843	E5	2.12

Signal #2 Calibration Files

5 =J1212011.D 10 =J1212012.D 20 =J1212013.D
 50 =J1212014.D 100 =J1212015.D 200 =J1212016.D

	Compound	5	10	20	50	100	200	Avg		%RSD
1)	S Tetrachloro-m...	1.395	1.378	1.353	1.365	1.386	1.315	1.360	E7	2.15
2)	S Decachlorobip...	1.088	1.024	0.972	0.974	1.009	0.925	0.998	E7	5.10
3)	L6 1254{1}			5.697	5.127	4.990	4.873	5.102	E5	6.92
4)	L6 1254{2}			6.743	5.895	5.730	5.644	5.920	E5	8.01
5)	L6 1254{3}			9.069	8.317	8.297	8.193	8.401	E5	4.54
6)	L6 1254{4}			4.519	3.947	3.890	3.765	3.964	E5	8.20
7)	L6 1254{5}			7.967	7.307	7.311	8.675	7.683	E5	8.30

(#) = Out of Range ### Number of calibration levels exceeded format ###

05

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 10-1254-012814C.M
 Title : 1254 01/28/14 09/17/13
 Last Update : Wed Jan 29 11:51:55 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\Users\ECD10.CONTEST\Desktop\Curves\121213\J1212011.D
2	10	10	0	C:\Users\ECD10.CONTEST\Desktop\Curves\121213\J1212012.D
3	20	20	0	C:\Users\ECD10.CONTEST\Desktop\Curves\121213\J1212013.D
4	50	50	0	C:\Users\ECD10.CONTEST\Desktop\Curves\121213\J1212014.D
5	100	100	0	C:\Users\ECD10.CONTEST\Desktop\Curves\121213\J1212015.D
6	200	200	0	C:\Users\ECD10.CONTEST\Desktop\Curves\121213\J1212016.D
7	250	250	0	C:\Users\ECD10.CONTEST\Desktop\Curves\121213\J1212017.D

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Jan 29 11:51 2014	Jan 29 11:51 2014	12 Dec 2013 1:45 pm
2	10	Jan 29 11:51 2014	Jan 29 11:51 2014	12 Dec 2013 1:57 pm
3	20	Jan 29 11:51 2014	Jan 29 11:51 2014	12 Dec 2013 2:10 pm
4	50	Jan 29 11:51 2014	Jan 29 11:51 2014	12 Dec 2013 2:22 pm
5	100	Jan 29 11:51 2014	Jan 29 11:51 2014	12 Dec 2013 2:34 pm
6	200	Jan 29 11:51 2014	Jan 29 11:51 2014	12 Dec 2013 2:47 pm
7	250	Jan 29 11:51 2014	Jan 29 11:51 2014	12 Dec 2013 2:59 pm

10-1254-012814C.M Wed Jan 29 11:55:00 2014

Method Path : C:\msdchem\1\methods\PC8 Methods\
 Method File : 10-1248-112313C.M
 Title : 1248 11/23/13 08/29/13
 Last Update : Mon Nov 25 11:04:20 2013
 Response Via : Initial Calibration

Calibration Files

5 =J1123011.D 10 =J1123012.D 20 =J1123013.D
 50 =J1123014.D 100 =J1123015.D 200 =J1123016.D

	Compound	5	10	20	50	100	200	Avg	%RSD
1) S	Tetrachloro-m...	1.069	1.064	1.230	1.305	1.286	1.286	1.218	E7 9.71
2) S	Decachlorobip...	0.980	0.922	0.998	1.011	1.026	1.038	1.001	E7 4.03
3) L5	1248(1)			2.456	2.339	2.435	2.313	2.367	E5 3.10
4) L5	1248(2)			2.886	2.689	2.782	2.559	2.688	E5 5.60
5) L5	1248(3)			3.735	3.460	3.659	3.458	3.549	E5 3.90
6) L5	1248(4)			3.172	3.016	3.494	3.460	3.330	E5 6.70
7) L5	1248(5)			4.769	4.299	4.631	4.204	4.401	E5 6.49

Signal #2 Calibration Files

5 =J1123011.D 10 =J1123012.D 20 =J1123013.D
 50 =J1123014.D 100 =J1123015.D 200 =J1123016.D

	Compound	5	10	20	50	100	200	Avg	%RSD
1) S	Tetrachloro-m...	1.332	1.305	1.485	1.528	1.483	1.470	1.439	E7 5.90
2) S	Decachlorobip...	1.076	0.974	1.038	1.082	1.061	1.072	1.056	E7 3.81
3) L5	1248(1)			3.326	3.303	3.254	3.039	3.146	E5 7.02
4) L5	1248(2)			4.196	3.758	3.797	3.473	3.726	E5 8.43
5) L5	1248(3)			5.151	4.696	4.848	4.509	4.730	E5 6.01
6) L5	1248(4)			5.170	4.902	5.190	4.911	5.013	E5 3.05
7) L5	1248(5)			6.210	6.266	6.376	5.901	6.111	E5 4.03

{#} = Out of Range ### Number of calibration levels exceeded format ###

107

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 10-1248-112313C.M
 Title : 1248 11/23/13 08/29/13
 Last Update : Mon Nov 25 11:04:20 2013
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\112313\J1123011.D
2	10	10	0	C:\msdchem\1\data\112313\J1123012.D
3	20	20	0	C:\msdchem\1\data\112313\J1123013.D
4	50	50	0	C:\msdchem\1\data\112313\J1123014.D
5	100	100	0	C:\msdchem\1\data\112313\J1123015.D
6	200	200	0	C:\msdchem\1\data\112313\J1123016.D
7	250	250	0	C:\msdchem\1\data\112313\J1123017.D

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Nov 25 11:04 2013	Nov 25 10:52 2013	23 Nov 2013 9:36 pm
2	10	Nov 25 11:04 2013	Nov 25 10:52 2013	23 Nov 2013 9:48 pm
3	20	Nov 25 11:04 2013	Nov 25 10:52 2013	23 Nov 2013 10:00 pm
4	50	Nov 25 11:04 2013	Nov 25 10:52 2013	23 Nov 2013 10:13 pm
5	100	Nov 25 11:04 2013	Nov 25 10:52 2013	23 Nov 2013 10:25 pm
6	200	Nov 25 11:04 2013	Nov 25 10:52 2013	23 Nov 2013 10:38 pm
7	250	Nov 25 11:04 2013	Nov 25 10:52 2013	23 Nov 2013 10:50 pm

10-1248-112313C.M Mon Nov 25 11:04:37 2013

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0474
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD10	Calibration:	1400042
Lab File ID:	J0218160.D	Calibration Date:	12/12/13 00:00
Sequence:	S005565	Injection Date:	02/20/14
Lab Sample ID:	S005565-CCV1	Injection Time:	10:37

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	101				1.3	15
Aroclor-1016 [2C]	A	100	93.8				-6.2	15
Aroclor-1260	A	100	92.6				-7.4	15
Aroclor-1260 [2C]	A	100	99.6				-0.4	15
Decachlorobiphenyl	A	100	102	1.000632E+07	1.0192E+07		1.9	
Decachlorobiphenyl [2C]	A	100	106	9985282	1.0618E+07		6.3	
Tetrachloro-m-xylene	A	100	111	1.18075E+07	1.3065E+07		10.7	
Tetrachloro-m-xylene [2C]	A	100	98.0	1.360352E+07	1.3333E+07		-2.0	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

109

Data Path : C:\msdchem\1\data\021814\
 Data File : JD218160.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Feb 2014 10:37 am
 Operator : JMB
 Sample : 1260/1016 100 Inst : ECD10
 Misc :
 ALS Vial : 62 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Feb 20 10:50:38 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-020614.M
 Quant Title : 1260/1016 12/12/13 12/05/13
 QLast Update : Wed Jan 29 08:21:39 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) S Tetrachlo...	2.457	2.865	1306.5E6	1333.3E6	110.661	98.008
Spiked Amount	200.000		Recovery	=	55.33%	49.00%
2) S Decachlor...	6.531	7.191	1019.2E6	1061.8E6	101.858	106.338
Spiked Amount	200.000		Recovery	=	50.93%	53.17%
Target Compounds						
3) L1 1016 {1}	2.975	3.755	42324131	19240859	101.193	92.864
4) L1 1016 {2}	3.119	3.918	16908634	63712264	103.363	102.774
5) L1 1016 {3}	3.304	4.103	54357765	24106270	106.604	90.299
6) L1 1016 {4}	3.442	4.176	21574779	22718439	98.915	92.345
7) L1 1016 {5}	3.691	4.389	27274915	31887224	96.207	90.687
Sum 1016			162.4E6	161.7E6	506.281	468.970
Average 1016					101.256	93.794
8) L7 1260 {1}	4.598	5.403	53673589	63999075	95.549	94.559
9) L7 1260 {2}	4.813	5.571	76774891	77044759	89.739	97.551
10) L7 1260 {3}	5.119	5.934	47868681	58552034	93.134	100.501
11) L7 1260 {4}	5.313	6.153	48633979	66473588	86.864	101.950
12) L7 1260 {5}	5.561	6.320	121.3E6	138.6E6	97.957	103.208
Sum 1260			348.3E6	404.7E6	463.243	497.768
Average 1260					92.649	99.554

{f}=RT Delta > 1/2 Window {#}=Amounts differ by > 25% (m)=manual int.

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0474
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD10	Calibration:	1400042
Lab File ID:	J0218173.D	Calibration Date:	12/12/13 00:00
Sequence:	S005565	Injection Date:	02/20/14
Lab Sample ID:	S005565-CCV2	Injection Time:	13.19

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	50.0	55.9				11.8	15
Aroclor-1016 [2C]	A	50.0	49.1				-1.8	15
Aroclor-1260	A	50.0	52.9				5.7	15
Aroclor-1260 [2C]	A	50.0	52.4				4.8	15
Decachlorobiphenyl	A	50.0	59.5	1.000632E+07	1.1898E+07		18.9	
Decachlorobiphenyl [2C]	A	50.0	54.6	9985282	1.0904E+07		9.2	
Tetrachloro-m-xylene	A	50.0	55.1	1.18075E+07	1.3018E+07		10.3	
Tetrachloro-m-xylene [2C]	A	50.0	49.1	1.360352E+07	1.3346E+07		-1.9	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data Path : C:\msdchem\1\data\021814\
 Data File : J0218173.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Feb 2014 1:19 pm
 Operator : JMB
 Sample : 1260/1016 50 Inst : ECD10
 Misc :
 ALS Vial : 75 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Feb 20 13:28:51 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-020614.M
 Quant Title : 1260/1016 12/12/13 12/05/13
 QLast Update : Wed Jan 29 08:21:39 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) S Tetrachlo...	2.457	2.866	650.9E6	667.3E6	55.128	49.052
Spiked Amount	200.000		Recovery	=	27.56%	24.53%
2) S Decachlor...	6.530	7.191	594.9E6	545.2E6	59.452	54.603
Spiked Amount	200.000		Recovery	=	29.73%	27.30%
Target Compounds						
3) L1 1016{1}	2.975	3.755	23673781	10313782	56.602	49.779
4) L1 1016{2}	3.119	3.918	9410212	32459687	57.525	52.361
5) L1 1016{3}	3.304	4.103	28558948	12332104	56.009	46.195
6) L1 1016{4}	3.442	4.175	12166583	12214987	55.781	49.651
7) L1 1016{5}	3.690	4.388	15183861	16674142	53.558	47.421
Sum 1016			88993386	83994701	279.474	245.406
Average 1016					55.895	49.081
8) L7 1260{1}	4.597	5.402	30499375	33459894	54.294	49.437
9) L7 1260{2}	4.812	5.569	43608817	40752171	50.973	51.599
10) L7 1260{3}	5.118	5.933	26796154	31207691	52.135	53.566
11) L7 1260{4}	5.312	6.152	27772469	34935809	49.604	53.581
12) L7 1260{5}	5.560	6.319	71034644	72242946	57.351	53.788
Sum 1260			199.7E6	212.6E6	264.356	261.970
Average 1260					52.871	52.394

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:
 FEB 20 2014

Data Validation Report

**WSP Group
5140 Commercial Dr.
Yorkville, New York**

SDG# 14B0475



ECT.CON INC.

Environmental and Computer
Technology Consultants

115 Riverview Bend South Unit 2144
Palm Coast, FL 32137
Office (386) 283-9360
Cell (724) 288-1971
e-mail: ectconinc@mac.com

DATA VALIDATION REPORT

Project Name: 5140 Commercial Dr, Yorkville, NY
SDG # 14B0475

Performed for: WSP

Laboratory: Con-test Analytical Laboratory

Validation Performed by: ECT.CON INC
Validation Guidance: USEPA CLP National Functional Guidelines for Organic
Data Review (NFG)

Validation Report Date: 4/30/14

Samples/Matrix:

	Sample Date	Sample ID	Laboratory ID	Matrix
1	02/17/14	Berm 5N-5E	14B0475-01	Solid
2	02/17/14	Berm 5N-15E	14B0475-02	Solid
3	02/17/14	Berm 5N-25E	14B0475-03	Solid
4	02/17/14	Berm 5N-35E	14B0475-04	Solid
5	02/17/14	Berm 5N-45E	14B0475-05	Solid
6	02/17/14	Berm 5N-55E	14B0475-06	Solid
7	02/17/14	Berm 5N-65E	14B0475-07	Solid
8	02/17/14	Berm 5N-75E	14B0475-08	Solid
9	02/17/14	Berm 5N-85E	14B0475-09	Solid
10	02/17/14	Berm 5N-95E	14B0475-10	Solid
11	02/18/14	Berm 5N-105E	14B0475-11	Solid
12	02/18/14	Berm 5N-115E	14B0475-12	Solid
13	02/18/14	Berm 5N-125E	14B0475-13	Solid
14	02/18/14	Berm 5N-135E	14B0475-14	Solid
15	02/18/14	Berm 5N-145E	14B0475-15	Solid
16	02/18/14	Berm 10N-145E	14B0475-16	Solid

This sample set consists of the following:

Field Samples : 16
Trip Blanks : 0
Equipment Blanks : 0
Field Blanks : 0
Field Duplicates: 1

Analytical data in this report were reviewed to determine analytical limitations of the data based on specific quality control criteria. This review is performed on a laboratory signed data data package. The laboratory signature indicates that the laboratory has reviewed and has certified that the information provided in the data package are correct and complete. The results of the review are an interpretation of the reported quality control information provided by the laboratory in comparison to the specified validation criteria for the project. Laboratory calculations have been verified as part of the validation. Form 1's and/or analytical results sheets are annotated with the results of the validation.

This evaluation was conducted in accordance with the requested validation guidelines, project requirement and the analytical method. Findings from this validation should be considered when using the analytical data.

The organic findings are based on the validation of the following:

- Sample Preservation
- Holding Times
- Initial Calibration
- Continuing Calibration
- Blanks (lab and field)
- System Monitoring Compounds
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- Laboratory Control Sample (LCS)
- Target Compound Identification
- Compound Quantification and Quantiation Limits
- System Performance

This report consists of the validation findings. This is followed by annotated Form 1's. The final section of the report is supporting documentation. This consists of the Chain of Custody, laboratory case narrative and the validation worksheets.

Project Number: 14B0475

Method Number **Description**
 SW-846 8082 Polychlorinated Biphenyls (PCBs)

				PCB
	Sample Date	Sample ID	Laboratory ID	8082
1	02/17/14	Berm 5N-5E	14B0475-01	Solid X
2	02/17/14	Berm 5N-15E	14B0475-02	Solid X
3	02/17/14	Berm 5N-25E	14B0475-03	Solid X
4	02/17/14	Berm 5N-35E	14B0475-04	Solid X
5	02/17/14	Berm 5N-45E	14B0475-05	Solid X
6	02/17/14	Berm 5N-55E	14B0475-06	Solid X
7	02/17/14	Berm 5N-65E	14B0475-07	Solid X
8	02/17/14	Berm 5N-75E	14B0475-08	Solid X
9	02/17/14	Berm 5N-85E	14B0475-09	Solid X
10	02/17/14	Berm 5N-95E	14B0475-10	Solid X
11	02/18/14	Berm 5N-105E	14B0475-11	Solid X
12	02/18/14	Berm 5N-115E	14B0475-12	Solid X
13	02/18/14	Berm 5N-125E	14B0475-13	Solid X
14	02/18/14	Berm 5N-135E	14B0475-14	Solid X
15	02/18/14	Berm 5N-145E	14B0475-15	Solid X
16	02/18/14	Berm 10N-145E	14B0475-16	Solid X

FINDINGS

POLYCHLORINATED BIPHENYLS

1. The percent difference (%D) between columns exceeded the 25% quality control limit for Aroclor 1254 (48.7%) in sample Berm 5N-85E. The positive result for Aroclor 1254 in sample Berm 5N-85E was qualified as estimated, "J."
2. The laboratory noted that several samples contained two incompletely resolved aroclors. The aroclor with the closest matching pattern was used for quantitation. In the following samples, the positive result for Aroclor 1260 was qualified as estimated, "J."

Berm 5N-5E

Berm 5N-15E

Berm 5N-35E

Berm 5N-95E

3. Positive results less than the reporting limits were qualified as estimated, "J", due to uncertainty near the detection limit.

NOTES

POLYCHLORINATED BIPHENYLS

- A. Surrogate recoveries exceeded the quality control limits in several samples due to the necessary dilution of the sample extracts prior to analysis. Data were not qualified on this basis.

Berm 5N-25E	Berm 5N-35E	Berm 5N-55E	Berm 5N-75E
Berm 5N-115E	Berm 5N-125E	Berm 5N-135E	Berm 5N-145E
Berm 10N-145E			

- B. Continuing calibration %Ds exceeded the 15% quality control limit for Aroclor 1016 at 1459 (15.4%), 2257 (15.4%), and 0132 (15.9%). Aroclor 1016 was not detected in the associated samples. Data were not qualified on this basis.

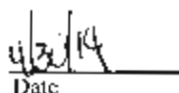
- C. Percent recoveries were outside the laboratory's quality control limits for Berm 10N-145E MS/MSID. Due to matrix interferences and/or the presence of target compounds, the unspiked sample was analyzed at a 1000X dilution factor. For this reason, data were not qualified on the basis of MS/MSID percent recoveries.

Parameter	MS %R	MSD %R	RPD
PCB 1016	2190	2370	--
PCB 1260	-9180	-13800	16.3

- D. On instrument ECD 3's analytical sequence, standards for Aroclor 1242, 1232, 1221, 1262, and 1268 are listed as part of the sequence. The quantitation reports for these compounds were not included in the data package. This is noted for completeness only. Data were not qualified on this basis.
- E. The following samples were analyzed and reported at the listed dilution factors due to the presence of target compounds and/or matrix interferences. Data were not qualified on this basis.

Sample	Lab ID	Dilution
Berm 5N-5E	14B0475-01	10X
Berm 5N-15E	14B0475-02	10X
Berm 5N-25E	14B0475-03	100X
Berm 5N-35E	14B0475-04	100X
Berm 5N-45E	14B0475-05	20X
Berm 5N-55E	14B0475-06	500X
Berm 5N-65E	14B0475-07	10X
Berm 5N-75E	14B0475-08	50X
Berm 5N-85E	14B0475-09	1X
Berm 5N-95E	14B0475-10	10X
Berm 5N-105E	14B0475-11	10X
Berm 5N-115E	14B0475-12	500X
Berm 5N-125E	14B0475-13	500X
Berm 5N-135E	14B0475-14	1000X
Berm 5N-145E	14B0475-15	1000X
Berm 10N-145E	14B0475-16	1000X


Data Reviewer


Date

Field Duplicates

Calculated RPD for positive results only.

ND - Nondetected results, -- RPD not calculated.

14B0475-15	14B0475-16		
Sample ID	Duplicate ID	Parameter	RPD
Berm 5N-145E	Berm 10N-145E		
32	21 J	PCBs 1248	10%
180	110	PCBs 1260	12%

Glossary of Data Qualifiers

U	Not Detected	The associated number indicates approximate sample concentration necessary to be detected.
UJ	Not Detected	Quantitation limit may be inaccurate or imprecise.
J	Analyte Present	Reported value is an estimated quantity.
N	Consider Present	Tentative identification. Special methods may be needed to confirm its presence or absence in future sampling efforts.
R	Unusable Result	Analyte may or may not be present in the sample.
UR	Unusable Result	Analyte may or may not be present in the sample.



ECT.CON INC.

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9

Annotated Form 1's
(Spreadsheet)

1 - FORM I

ANALYSIS DATA SHEET

Berm 5N-5E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0475
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14B0475-01 File ID: C0220033.d
 Sampled: 02/17/14 14:00 Prepared: 02/20/14 09:45 Analyzed: 02/20/14 20:09
 Solids: 75.30 Preparation: SW-846 3545 Dilution: 10
 Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.082	0.26	
11104-28-2	Aroclor-1221		0.26	0.26	
11096-82-5	Aroclor-1260 [2C]	0.56 <i>J</i>	0.13	0.26	<i>0.03</i>
11141-16-5	Aroclor-1232		0.16	0.26	
53469-21-9	Aroclor-1242		0.13	0.26	
12672-29-6	Aroclor-1248		0.15	0.26	
11097-69-1	Aroclor-1254		0.11	0.26	
37324-23-5	Aroclor-1262		0.11	0.26	
11100-14-4	Aroclor-1268		0.16	0.26	

* Values outside of QC limits

4/2/14

1 - FORM I

ANALYSIS DATA SHEET

Berm 5N-15E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0475
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14B0475-02 File ID: C0220034.d
 Sampled: 02/17/14 14:05 Prepared: 02/20/14 09:45 Analyzed: 02/20/14 20:22
 Solids: 74.40 Preparation: SW-846 3546 Dilution: 10
 Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.082	0.26	
11104-28-2	Aroclor-1221		0.26	0.26	
11096-82-5	Aroclor-1260 [2C]	1.6 ~~1.5~~	0.13	0.26	~~0.03~~
11141-16-5	Aroclor-1232		0.16	0.26	
53469-21-9	Aroclor-1242		0.13	0.26	
12672-29-6	Aroclor-1248		0.15	0.26	
11097-69-1	Aroclor-1254		0.11	0.26	
37324-23-5	Aroclor-1262		0.11	0.26	
11100-14-4	Aroclor-1268		0.16	0.26	

* Values outside of QC limits

4/2/14



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-8406 * TEL. 413/525-2332

58

12

1 - FORM I ANALYSIS DATA SHEET

Berm 5N-25E

Laboratory: Con-Test Analytical Laboratory SOG: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0475-03 File ID: C0220075.d
Sampled: 02/17/14 14:10 Prepared: 02/20/14 09:45 Analyzed: 02/21/14 08:50
Solids: 91.80 Preparation: SW-846 3546 Dilution: 100
Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.67	2.2	
11104-28-2	Aroclor-1221		2.1	2.2	
11096-82-5	Aroclor-1260 [2C]	11	1.0	2.2	
11141-16-5	Aroclor-1232		1.3	2.2	
53469-21-9	Aroclor-1242		1.1	2.2	
12672-29-6	Aroclor-1248		1.3	2.2	
11097-69-1	Aroclor-1254		0.93	2.2	
37324-23-5	Aroclor-1262		0.88	2.2	
11100-14-4	Aroclor-1268		1.3	2.2	

* Values outside of QC limits

6/4
6/2/14



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

**1 - FORM I
ANALYSIS DATA SHEET**

Berm 5N-35E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0475-04 File ID: C0220076.d
Sampled: 02/17/14 14:15 Prepared: 02/20/14 09:45 Analyzed: 02/21/14 09:03
Solids: 88.70 Preparation: SW-846 3546 Dilution: 100
Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECO3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.69	2.2	
11104-28-2	Aroclor-1221		2.2	2.2	
11096-82-5	Aroclor-1260	20 $\overline{J}$	1.1	2.2	~~0.03~~
11141-16-5	Aroclor-1232		1.4	2.2	
53469-21-9	Aroclor-1242		1.1	2.2	
12672-29-6	Aroclor-1248		1.3	2.2	
11097-69-1	Aroclor-1254		0.96	2.2	
37324-23-5	Aroclor-1262		0.92	2.2	
11100-14-4	Aroclor-1268		1.3	2.2	

* Values outside of QC limits

WJ
4/28/14

1 - FORM I

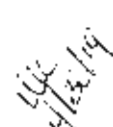
ANALYSIS DATA SHEET

Berm 5N-45E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0475
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14B0475-05 File ID: C0220077.d
 Sampled: 02/17/14 14:20 Prepared: 02/20/14 09:45 Analyzed: 02/21/14 09:16
 Solids: 92.80 Preparation: SW-846 3546 Dilution: 20
 Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.13	0.43	
11104-28-2	Aroclor-1221		0.42	0.43	
11096-82-5	Aroclor-1260 [2C]	3.1	0.20	0.43	
11141-16-5	Aroclor-1232		0.26	0.43	
53469-21-9	Aroclor-1242		0.22	0.43	
12672-29-6	Aroclor-1248		0.25	0.43	
11097-69-1	Aroclor-1254		0.18	0.43	
37324-23-5	Aroclor-1262		0.17	0.43	
11100-14-4	Aroclor-1268		0.26	0.43	

* Values outside of QC limits





39 Spruce Street * East Longmeadow, MA 01026 * FAX 413/525-6405 * TEL., 413/525-2332

**1 - FORM I
ANALYSIS DATA SHEET****Berm 5N-55E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0475-06 File ID: C0220078.d
Sampled: 02/17/14 14:25 Prepared: 02/20/14 09:45 Analyzed: 02/21/14 09:29
Solids: 88.30 Preparation: SW-846 3546 Dilution: 500
Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		3.4	11	
11104-28-2	Aroclor-1221		11	11	
11096-82-5	Aroclor-1260	42	5.3	11	
11141-16-5	Aroclor-1232		6.9	11	
53469-21-9	Aroclor-1242		5.7	11	
12672-29-6	Aroclor-1248		6.4	11	
11097-69-1	Aroclor-1254		4.8	11	
37324-23-5	Aroclor-1262		4.6	11	
11100-14-4	Aroclor-1268		6.7	11	

* Values outside of QC limits

116
4/30/14



38 Spruce Street * East Longmeadow MA 01028 * FAX 413/525-6405 * TEL 413/525-2332

70

16

1 - FORM I ANALYSIS DATA SHEET

Berm 5N-65E

Laboratory: Con-Test Analytical Laboratory SOG: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0475-07 File ID: C0220039.d
Sampled: 02/17/14 14:30 Prepared: 02/20/14 09:45 Analyzed: 02/20/14 21:26
Solids: 87.60 Preparation: SW-846 3546 Dilution: 10
Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.070	0.23	
11104-28-2	Aroclor-1221		0.22	0.23	
11096-82-5	Aroclor-1260 [2C]	0.70	0.11	0.23	
11141-16-5	Aroclor-1232		0.14	0.23	
53469-21-9	Aroclor-1242		0.12	0.23	
12672-29-6	Aroclor-1248		0.13	0.23	
11097-69-1	Aroclor-1254 [2C]	0.34	0.097	0.23	
37324-23-5	Aroclor-1262		0.093	0.23	
11100-14-4	Aroclor-1268		0.14	0.23	

* Values outside of QC limits

2/20/14
2/20/14



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77

17

1 - FORM I ANALYSIS DATA SHEET

Berm 5N-75E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0475-08 File ID: C0220079.d
Sampled: 02/17/14 14:35 Prepared: 02/20/14 09:45 Analyzed: 02/21/14 09:42
Solids: 82.40 Preparation: SW-846 3546 Dilution: 50
Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.37	1.2	
11104-28-2	Aroclor-1221		1.2	1.2	
11096-82-5	Aroclor-1260	6.4	0.58	1.2	
11141-16-5	Aroclor-1232		0.74	1.2	
53469-21-9	Aroclor-1242		0.61	1.2	
12672-29-6	Aroclor-1248		0.70	1.2	
11097-59-1	Aroclor-1254		0.52	1.2	
37324-23-5	Aroclor-1262		0.49	1.2	
11100-14-4	Aroclor-1268		0.72	1.2	

* Values outside of QC limits

26
4/2/14



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80

18

1 - FORM I ANALYSIS DATA SHEET

Berm 5N-85E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0475-09 File ID: C0220080.d
Sampled: 02/17/14 14:40 Prepared: 02/20/14 09:45 Analyzed: 02/21/14 09:55
Solids: 93.60 Preparation: SW-846 3546 Dilution: 1
Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0065	0.021	
11104-28-2	Aroclor-1221		0.021	0.021	
11096-82-5	Aroclor-1260 [2C]	0.098	0.010	0.021	
11141-16-5	Aroclor-1232		0.013	0.021	
53469-21-9	Aroclor-1242		0.011	0.021	
12672-29-6	Aroclor-1248		0.012	0.021	
11097-69-1	Aroclor-1254 [2C]	0.16 J	0.0090	0.021	POH
37324-23-5	Aroclor-1262		0.0086	0.021	
11100-14-4	Aroclor-1268		0.013	0.021	

* Values outside of QC limits

66-
4/12/14



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**1 - FORM I
ANALYSIS DATA SHEET****Berm 5N-95E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0475-10 File ID: C0220042.d
Sampled: 02/17/14 14:45 Prepared: 02/20/14 09:45 Analyzed: 02/20/14 22:05
Solids: 91.90 Preparation: SW-846 3546 Dilution: 10
Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.065	0.21	
11104-28-2	Aroclor-1221		0.21	0.21	
11096-82-5	Aroclor-1260 [2C]	0.37 <i>T</i>	0.10	0.21	~~0.05~~
11141-16-5	Aroclor-1232		0.13	0.21	
53469-21-9	Aroclor-1242		0.11	0.21	
12672-29-6	Aroclor-1248		0.12	0.21	
11097-69-1	Aroclor-1254		0.090	0.21	
37324-23-5	Aroclor-1262		0.086	0.21	
11100-14-4	Aroclor-1268		0.13	0.21	

* Values outside of QC limits

*104
4/2/14*



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94

20

1 - FORM I ANALYSIS DATA SHEET

Berm 5N-105E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0475-11 File ID: C0220043.d
Sampled: 02/18/14 08:30 Prepared: 02/20/14 09:45 Analyzed: 02/20/14 22:18
Solids: 74.10 Preparation: SW-846 3546 Dilution: 10
Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.084	0.27	
11104-28-2	Aroclor-1221		0.26	0.27	
11096-82-5	Aroclor-1260	1.1	0.13	0.27	
11141-16-5	Aroclor-1232		0.17	0.27	
53469-21-9	Aroclor-1242		0.14	0.27	
12672-29-6	Aroclor-1248		0.16	0.27	
11097-69-1	Aroclor-1254		0.12	0.27	
37324-23-5	Aroclor-1262		0.11	0.27	
11100-14-4	Aroclor-1268		0.16	0.27	

* Values outside of QC limits

4/2/14

1 - FORM I

ANALYSIS DATA SHEET

Berm 5N-115E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0475-12 File ID: C0220081.d
Sampled: 02/18/14 08:40 Prepared: 02/20/14 09:45 Analyzed: 02/21/14 10:13
Solids: 76.80 Preparation: SW-846 3546 Dilution: 500
Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		4.0	13	
11104-28-2	Aroclor-1221		13	13	
11096-82-5	Aroclor-1260 [2C]	43	6.1	13	
11141-16-5	Aroclor-1232		7.9	13	
53469-21-9	Aroclor-1242		6.5	13	
12672-29-6	Aroclor-1248		7.4	13	
11097-69-1	Aroclor-1254		5.5	13	
37324-23-5	Aroclor-1262		5.2	13	
11100-14-4	Aroclor-1268		7.7	13	

* Values outside of QC limits

14-
4/23/14



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**1 - FORM I
ANALYSIS DATA SHEET****Berm 5N-125E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0475-13 File ID: C0220082.d
Sampled: 02/18/14 08:50 Prepared: 02/20/14 09:45 Analyzed: 02/21/14 10:26
Solids: 73.20 Preparation: SW-846 3546 Dilution: 500
Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		4.2	14	
11104-28-2	Aroclor-1221		13	14	
11096-82-5	Aroclor-1260 [2C]	85	6.6	14	
11141-16-5	Aroclor-1232		8.5	14	
53469-21-9	Aroclor-1242		7.0	14	
12672-29-6	Aroclor-1248 [2C]	16	7.9	14	
11097-69-1	Aroclor-1254		5.9	14	
37324-23-5	Aroclor-1262		5.6	14	
11100-14-4	Aroclor-1268		8.2	14	

* Values outside of QC limits

2/21/14



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1 - FORM I ANALYSIS DATA SHEET

Berm 5N-135E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0475
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14B0475-14 File ID: C0220083.d
 Sampled: 02/18/14 09:00 Prepared: 02/20/14 09:45 Analyzed: 02/21/14 10:39
 Solids: 76.80 Preparation: SW-846 3546 Dilution: 1000
 Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		7.8	25	
11104-28-2	Aroclor-1221		25	25	
11096-82-5	Aroclor-1260 [2C]	130	12	25	
11141-16-5	Aroclor-1232		16	25	
53469-21-9	Aroclor-1242		13	25	
12672-29-6	Aroclor-1248 [2C]	16 ⁵	15	25	¹
11097-69-1	Aroclor-1254		11	25	
37324-23-5	Aroclor-1262		10	25	
11100-14-4	Aroclor-1268		15	25	

* Values outside of QC limits

WSP
5/15/14

**1 - FORM I
ANALYSIS DATA SHEET****Berm 5N-145E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0475-15 File ID: C0220084.d
Sampled: 02/18/14 11:05 Prepared: 02/20/14 09:45 Analyzed: 02/21/14 10:52
Solids: 77.60 Preparation: SW-846 3546 Dilution: 1000
Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		7.9	26	
11104-28-2	Aroclor-1221		25	26	
11096-82-5	Aroclor-1260 [2C]	180	12	26	
11141-16-5	Aroclor-1232		16	26	
53469-21-9	Aroclor-1242		13	26	
12672-29-6	Aroclor-1248 [2C]	32	15	26	
11097-69-1	Aroclor-1254		11	26	
37324-23-5	Aroclor-1262		10	26	
11100-14-4	Aroclor-1268		15	26	

* Values outside of QC limits

24



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

1 - FORM I

ANALYSIS DATA SHEET

Berm 10N-145E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0475
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14B0475-16 File ID: C0220085.d
 Sampled: 02/18/14 14:05 Prepared: 02/20/14 09:45 Analyzed: 02/21/14 11:05
 Solids: 78.60 Preparation: SW-846 3546 Dilution: 1000
 Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		7.9	25	
11104-28-2	Aroclor-1221		25	25	
11096-82-5	Aroclor-1260 [2C]	110	12	25	
11141-16-5	Aroclor-1232		16	25	
53469-21-9	Aroclor-1242		13	25	
12672-29-6	Aroclor-1248 [2C]	21 $\overline{1}$	15	25	
11097-69-1	Aroclor-1254		11	25	
37324-23-5	Aroclor-1262		10	25	
11100-14-4	Aroclor-1268		15	25	

* Values outside of QC limits



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1 - FORM I
ANALYSIS DATA SHEET
Berm 5N-5E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0475

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0475-01

Sampled: 02/17/14 14.00

% Solids: 75.30

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	75.3			1		B090642	02/21/14 08:01	SM 2540G

JH
4/13/14



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

1 - FORM I
ANALYSIS DATA SHEET
Berm 5N-15E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0475

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0475-02

Sampled: 02/17/14 14:05

% Solids: 74.40

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	74.4			1		B090542	02/21/14 08:01	SM 2540C



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

1 - FORM I
ANALYSIS DATA SHEET
Berm 5N-25E

Laboratory: Con-Test Analytical Laboratory

SDG: 1480475

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 1480475-03

Sampled: 02/17/14 14:10

% Solids: 91.80

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	91.8			1		B090542	02/21/14 08:01	SM 254UG



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-8405 * TEL. 413/525-2332

1 - FORM I
ANALYSIS DATA SHEET
Berm 5N-35E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0475

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0475-04

Sampled: 02/17/14 14:15

% Solids: 88.70

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	88.7			1		B090642	02/21/14 08:01	SM 2540G



300

30

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

1 - FORM I
ANALYSIS DATA SHEET
Berm 5N-45E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0475

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0475-05

Sampled: 02/17/14 14:20

% Solids: 92.80

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	92.8			1		B090642	02/21/14 08:01	SM 2540G

300



39 Spruce Street * East Longmeadow, MA 01026 * FAX 413/525-6405 * TEL. 413/525-2332

1 - FORM I
ANALYSIS DATA SHEET
Berm 5N-55E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0475-06
Sampled: 02/17/14 14:25
% Solids: 88.30

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	88.3			1		B090642	02/21/14 08.01	SM 2540G

4/2/14



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

1 - FORM I
ANALYSIS DATA SHEET
Berm 5N-65E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0475-07
Sampled: 02/17/14 14:30
% Solids: 87.60

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	87.6			1		B090642	02/21/14 08:01	SM 2540G

440
2/22/14



303

33

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

1 - FORM I
ANALYSIS DATA SHEET
Berm 5N-75E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0475-08
Sampled: 02/17/14 14:35
% Solids: 82.40

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	82.4			1		8090642	02/21/14 08:01	SM 2540G

5/1/14
J. J. J.

34
304

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

1 - FORM I
ANALYSIS DATA SHEET
Berm 5N-85E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0475

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0475-09

Sampled: 02/17/14 14:40

% Solids. 93.60

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	93.6			1		B090642	02/21/14 08:01	SM 2540G

44-
4/23/14

35

305



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-8405 * TEL. 413/525-2332

1 - FORM I
ANALYSIS DATA SHEET
Berm 5N-95E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0475

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0475-10

Sampled: 02/17/14 14:45

% Solids: 91.90

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	91.9			1		B090642	02/21/14 08.01	SM 2540G

35



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

1 - FORM I
ANALYSIS DATA SHEET

Berm 5N-105E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0475

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0475-11

Sampled: 02/18/14 08:30

% Solids: 74.10

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	74.1			1		B090642	02/21/14 08:01	SM 2540G

بازرسی شده
تاریخ: 02/21/14



307

37

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-8405 * TEL. 413/525-2332

1 - FORM I
ANALYSIS DATA SHEET

Berm 5N-115E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0475

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0475-12

Sampled: 02/18/14 08:40

% Solids: 76.80

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	76.8			1		B090642	02/21/14 08:01	SM 2540G

37



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1 - FORM I
ANALYSIS DATA SHEET
Berm 5N-125E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0475

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0475-13

Sampled: 02/18/14 08:50

% Solids: 73.20

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	73.2			1		B090642	02/21/14 08:01	SM 7540G

14B0475-13



309

39

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1 - FORM I
ANALYSIS DATA SHEET
Berm 5N-135E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0475

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0475-14

Sampled: 02/18/14 09:00

% Solids: 76.80

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	76.8			1		B090642	02/21/14 08:01	SM 7540G

3/1/14



310

40

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1 - FORM I
ANALYSIS DATA SHEET
Berm 5N-145E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0475-15
Sampled: 02/18/14 11:05
% Solids: 77.60

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	77.6			1		B090642	02/21/14 08:01	SM 2540G

3/2/14



311

41

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

1 - FORM I
ANALYSIS DATA SHEET
Berm 10N-145E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0475

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0475-16

Sampled: 02/18/14 14:05

% Solids: 78.60

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	78.6			1		B090642	02/21/14 08:01	SM 2540G

41



ECT.CON INC.

Environmental and Computer
Technology Consultants

Support Documentation

Laboratory Case Narrative

March 14, 2014

Dave Bouchard
WSP
5 Sullivan Street
Cazenovia, NY 13035

Project Location: 5140 Commercial Dr., Yorkville, NY
Client Job Number:
Project Number: E0032927.000/05
Laboratory Work Order Number: 14B0475

Enclosed are results of analyses for samples received by the laboratory on February 19, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Aaron L. Benoit
Project Manager

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

WSP
5 Sullivan Street
Cazenovia, NY 13039
ATTN: Dave Bouchard

REPORT DATE 3/14/2014

PURCHASE ORDER NUMBER

PROJECT NUMBER E0052927.000.05

ANALYTICAL SUMMARY

WORK ORDER NUMBER 14B0475

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

PROJECT LOCATION 5140 Commercial Dr., Yorkville, NY

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Berm SN-5E	14B0475-01	Soil		SM 2540G SW-846 B082A	
Berm SN-15T	14B0475-02	Soil		SM 2540G SW-846 B082A	
Berm SN-25E	14B0475-03	Soil		SM 2540G SW-846 B082A	
Berm SN-35E	14B0475-04	Soil		SM 2540G SW-846 B082A	
Berm SN-45E	14B0475-05	Soil		SM 2540G SW-846 B082A	
Berm SN-55E	14B0475-06	Soil		SM 2540G SW-846 B082A	
Berm SN-65E	14B0475-07	Soil		SM 2540G SW-846 B082A	
Berm SN-75E	14B0475-08	Soil		SM 2540G SW-846 B082A	
Berm SN-85E	14B0475-09	Soil		SM 2540G SW-846 B082A	
Berm SN-95E	14B0475-10	Soil		SM 2540G SW-846 B082A	
Berm SN-105E	14B0475-11	Soil		SM 2540G SW-846 B082A	
Berm SN-115E	14B0475-12	Soil		SM 2540G SW-846 B082A	
Berm SN-125E	14B0475-13	Soil		SM 2540G SW-846 B082A	
Berm SN-135E	14B0475-14	Soil		SM 2540G SW-846 B082A	
Berm SN-145E	14B0475-15	Soil		SM 2540G SW-846 B082A	
Berm SN-145E	14B0475-16	Soil		SM 2540G SW-846 B082A	

CASE NARRATIVE SUMMARY

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

REVISED REPORT 03/14/14: Report revised for an incorrect Field Sample ID. Sample ID for 14B0475-16 was changed to Bern 10N-145L as per COC.

SW-846 8082A

Qualifications:

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Sample(s) Qualified:

Aroclor-1016, Aroclor-1016 [2C], Aroclor-1260, Aroclor-1260 [2C]
B090641-MS1, B090641-MSD1

Sample contains two incompletely resolved aroclors. Aroclor with the closest matching pattern is reported.

Analyte & Sample(s) Qualified:

Aroclor-1260, Aroclor-1260 [2C]
14B0475-01[Bern 5N-5E], 14B0475-02[Bern 5N-15E], 14B0475-04[Bern 5N-25E], 14B0475-10[Bern 5N-95E]

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

Analyte & Sample(s) Qualified:

Aroclor-1254 [2C]
14B0475-09[Bern 5N-85E]

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Sample(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]
14B0475-03[Bern 5N-25E], 14B0475-04[Bern 5N-35E], 14B0475-06[Bern 5N-55E], 14B0475-08[Bern 5N-75E], 14B0475-12[Bern 5N-115E], 14B0475-13[Bern 5N-125E], 14B0475-14[Bern 5N-135E], 14B0475-15[Bern 5N-145E], 14B0475-16[Bern 10N-145E]

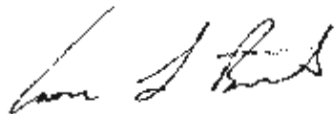
Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not affected.

Analyte & Sample(s) Qualified:

Decachlorobiphenyl [2C]
B090641-MS1, B090641-MSD1

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

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



Aaron E. Renou
Project Chemist

Chain of Custody



con-test
ANALYTICAL LABORATORY

Phone: 413-525-2122
Fax: 413-525-4405
Email: info@con-test-lab.com
www.con-test-lab.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01128

Page 1 of 2

Page 44 of 48

Company Name: WSP USA Corp.

Address: 5 Sullivan Street

Attention: DAVE BOUCHARD

Project Location: 5140 Commercial Dr, Yonkers, NY

Sampled By: Kevin Sullivan

Project Proposal Provided? (for billing purposes)
Yes 1/30/2014 proposal date MSA

Telephone: 746(315)665-3900

Project # E0032927.000/05

Client PO#

DATA DELIVERY (check all that apply)

☐ FAX ☐ EMAIL ☐ WEBSITE

Fax #

Email: DAVE.BOUCHARD@WSPUSA.COM

Format: ☐ PDF ☐ EXCEL ☐ OGIS ☐ Other

☐ "Enhanced Data Package"

Collection

Beginning Date/Time

Ending Date/Time

Composite

Grab

Unit

One

Each

Sample ID / Description

Beam SN-SE

Beam SN-SE

Beam SN-SE

Beam SN-SE

Beam SN-SE

Beam SN-SE

Beam SN-SE

Beam SN-SE

Beam SN-SE

Beam SN-SE

Beam SN-SE

Beam SN-SE

Beam SN-SE

Beam SN-SE

Beam SN-SE

Beam SN-SE

Comments: New York City 376-6.5(a)

Requesting Limit = 0.1mg/kg

Requested by: (signature)

Date/Time: 2/19/14 1600

Received by: (signature)

Date/Time: 2/19/14 1012

Refinanced by: (signature)

Date/Time:

Received by: (signature)

Date/Time:

Turnaround ^H

☒ 7-Day

☐ 10-Day

☐ Other

RUSH ^T

☐ 24-Hr ☐ 48-Hr

☐ 72-Hr ☐ 4-Day

Require lab approval

Detection Limit Requirements

See attachments:

Connecticut

Other:

Ala. York

Is your project MCP or RCP?

☐ MCP Form Required

☐ RCP Form Required

☐ MA State DW Form Required FWSID #

Accredited

WBE/DBE Certified



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Email: info@con-testlabs.com
www.con-testlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 2 of 2

Company Name: WSP USA Corp.

Address: 5 Sullivan Street
Cazenovia, NY 13035

Attention: Dave Bouchard

Project Location: 5140 Compucon Dr, Yorkville, NY

Sampled By: Kevin D. Sullivan

Telephone: 315-655-3900

Project #: 6003927.000/05

Client PO#

DATA DELIVERY (check all that apply)
☐ FAX ☒ EMAIL ☐ WEBSITE

Fax #

Email: Dave.Bouchard@wspcorp.com

Format: ☐ PDF ☐ EXCEL ☐ Other

Project Proposal Provided? (for billing purposes)
Yes ☒ No ☐ 30/2014 proposal dated 6/6/14

Collection: ☐ "Enhanced Data Package"

Analysis Requested

Matrix: ☐ Soil ☐ Sediment ☐ Other

Composite: ☐ Grab ☐ Other

Matrix: ☐ Soil ☐ Sediment ☐ Other

Matrix: ☐ Soil ☐ Sediment ☐ Other

Matrix: ☐ Soil ☐ Sediment ☐ Other

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Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

Page 45 of 48

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
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Page 1 of 2

Sample Receipt Checklist

CLIENT NAME: WSP RECEIVED BY: CEC DATE: 2/19/14

1) Was the chain(s) of custody relinquished and signed? ☒ Yes ☐ No No CoC Included

2) Does the chain agree with the samples?

If not, explain:

3) Are all the samples in good condition?

If not, explain:

4) How were the samples received:

On Ice ☐ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? ☒ Yes ☐ No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.0

5) Are there Dissolved samples for the lab to filter?

Yes ☐ No ☒

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes ☐ No ☒

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No

(Walk-in clients only) if not already approved

Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	<u>16</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Doc# 277

Rev. 4 August 2013

Page 2 of 2
Log-In Sample Receipt Checklist
 (Rejection Criteria Listing - Using Sample Acceptance Policy)
 Any False statement will be brought to the attention of Client

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	NA	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Doc #277 Rev. 4 August 2013 Who notified of False statements?
 Log-In Technician Initials: CEC

Date/Time:
 Date/Time:

2/19/14
 10/1

Worksheets

PERCENT SOLIDS

Preservative • Cool < 4C
Hold Time • 7 days

Sample Date	Sample ID	Laboratory ID	Matrix	Preservative	Days to Analysis	Date Analyzed	Dish Wgt	Sample Mass Wet	Sample Mass Dry	Calcd %S	Rptd %S
1 02/17/14	Berm SN-51	14B0475-01	Solid	Cool <4C	3	2/20/14	1.031	10.94	8.494	75.3	75.3
2 02/17/14	Berm SN-15E	14B0475-02	Solid	Cool <4C	3	2/20/14	1.025	11.241	8.628	74.4	74.4
3 02/17/14	Berm SN-25E	14B0475-03	Solid	Cool <4C	3	2/20/14	1.021	17.699	16.322	91.8	91.8
4 02/17/14	Berm SN-35E	14B0475-04	Solid	Cool <4C	3	2/20/14	1.037	17.906	16.006	88.7	88.7
5 02/17/14	Berm SN-45E	14B0475-05	Solid	Cool <4C	3	2/20/14	1.021	17.376	16.194	92.8	92.8
6 02/17/14	Berm SN-55E	14B0475-06	Solid	Cool <4C	3	2/20/14	1.017	17.455	15.533	88.3	88.3
7 02/17/14	Berm SN-65E	14B0475-07	Solid	Cool <4C	3	2/20/14	1.031	16.386	14.484	87.6	87.6
8 02/17/14	Berm SN-75E	14B0475-08	Solid	Cool <4C	3	2/20/14	1.025	15.894	13.279	82.4	82.4
9 02/17/14	Berm SN-85E	14B0475-09	Solid	Cool <4C	3	2/20/14	1.021	17.351	16.303	93.6	93.6
10 02/17/14	Berm SN-95E	14B0475-10	Solid	Cool <4C	3	2/20/14	1.037	13.894	12.85	91.9	91.9
11 02/18/14	Berm SN-105E	14B0475-11	Solid	Cool <4C	2	2/20/14	1.031	14.815	11.246	74.1	74.1
12 02/18/14	Berm SN-115E	14B0475-12	Solid	Cool <4C	2	2/20/14	1.025	15.075	11.809	76.8	76.8
13 02/18/14	Berm SN-125E	14B0475-13	Solid	Cool <4C	2	2/20/14	1.021	10.595	8.026	73.2	73.2
14 02/18/14	Berm SN-135E	14B0475-14	Solid	Cool <4C	2	2/20/14	1.037	11.896	9.373	76.8	76.8
15 02/18/14	Berm SN-145E	14B0475-15	Solid	Cool <4C	2	2/20/14	1.021	13.041	10.35	77.6	77.6
16 02/18/14	Berm SN-145E	14B0475-16	Solid	Cool <4C	2	2/20/14	1.017	14.356	11.503	78.6	78.6

	Berm SN-55E	Berm SN-65E
Sample	88.3	87.6
Dup	86.9	83.2
RPD	1.598	5.152
RPD Rptd	1.6	5.15

$$RPD = ((LCS - LCO) / ((LCS + (LSD/2)) * 100)$$

PERCENT SOLIDS

CON-TEST LABORATORY

	TEMP IN: 104 °C	dish	dish & sample		time	date	sample	dried dish & sample	time	date	dried sample	% solid
BATCH #												
analyst	sample#											
	B090642											

CON-TEST LABORATORY

PERCENT SOLIDS

HGA	14B0512-08	1.037	g	16.025	g	14:18	02/20/2014	14.9880	14.114	g	07:55	02/21/2014	13.0770	87.2
HGA	14B0512-09	1.031	g	10.844	g	14:19	02/20/2014	9.8130	10.252	g	07:56	02/21/2014	9.2210	94.0
HGA	14B0512-10	1.025	g	15.489	g	14:19	02/20/2014	14.4640	13.743	g	07:56	02/21/2014	12.7180	87.9
HGA	14B0512-11	1.021	g	11.622	g	14:19	02/20/2014	10.6010	9.949	g	07:56	02/21/2014	8.9280	84.2
HGA	14B0512-12	1.037	g	11.910	g	14:19	02/20/2014	10.8730	10.536	g	07:56	02/21/2014	9.4990	87.4
HGA	14B0512-13	1.031	g	10.255	g	14:19	02/20/2014	9.2240	9.216	g	07:56	02/21/2014	8.1850	88.7
HGA	14B0512-14	1.025	g	16.135	g	14:20	02/20/2014	15.1100	15.008	g	07:56	02/21/2014	13.9830	92.5
HGA	14B0512-15	1.021	g	14.302	g	14:20	02/20/2014	13.2810	13.067	g	07:56	02/21/2014	12.0460	90.7
HGA	14B0512-16	1.037	g	12.031	g	14:20	02/20/2014	10.9940	9.506	g	07:57	02/21/2014	8.4690	77.0
HGA	14B0512-17	1.025	g	11.812	g	14:20	02/20/2014	10.7870	10.959	g	07:57	02/21/2014	9.9340	92.1
HGA	14B0512-18	1.021	g	12.018	g	14:20	02/20/2014	10.9970	10.585	g	07:57	02/21/2014	9.5640	87.0
HGA	14B0512-19	1.037	g	16.106	g	14:21	02/20/2014	15.0690	15.304	g	07:57	02/21/2014	14.2670	94.7
HGA	14B0512-20	1.031	g	12.925	g	14:21	02/20/2014	11.8940	11.614	g	07:57	02/21/2014	10.5830	89.0
HGA	14B0512-21	1.025	g	12.972	g	14:21	02/20/2014	11.9470	11.401	g	07:57	02/21/2014	10.3760	86.9
HGA	D1-14B0475-06	1.037	g	16.752	g	14:21	02/20/2014	15.7150	14.686	g	07:58	02/21/2014	13.6490	86.9
HGA	D2-14B0475-07	1.021	g	14.706	g	14:21	02/20/2014	13.6850	12.411	g	07:58	02/21/2014	11.3900	83.2
HGA	D3-14B0512-20	1.017	g	13.936	g	14:22	02/20/2014	12.9190	12.244	g	07:58	02/21/2014	11.2270	86.9
HGA	D4-14B0512-21	1.031	g	12.633	g	14:22	02/20/2014	11.6020	11.069	g	07:58	02/21/2014	10.0380	86.5



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

DUPLICATES

Berm 5N-55E

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0475
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Laboratory ID:	B090642-DUP1
Batch:	B090642	Initial/Final:	5 g / 5 g
Preparation:	% Solids	Analysis:	SM 2540G
% Solids:	88.30		

ANALYTE	SAMPLE CONCENTRATION (% Wt)	DUPLICATE CONCENTRATION (% Wt)	RPD %	Q	CONTROL LIMIT
% Solids	88.3	86.9	1.60		20



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

DUPLICATES

Berm 5N-65E

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0475
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Laboratory ID:	B090642-DUP2
Batch:	B090642	Initial/Final:	5 g / 5 g
Preparation:	% Solids	Analysis:	SM 2540G
% Solids:	87.60		

ANALYTE	SAMPLE CONCENTRATION (% Wt)	DUPLICATE CONCENTRATION (% Wt)	RPD %	Q	CONTROL LIMIT
% Solids	87.6	83.2	5.15		20

Hold Times for PCBs - 8082

Preservative - Cool to 4°

Hold Time - 7 days to extraction aqueous, 14 days to extraction solids 40 days to analysis aqueous and solids

Sample Date	Sample ID	Laboratory ID	Matrix	Preservative	Days to Extraction	Date Extracted	Days to Analysis	Date Analyzed	DF	Prep Batch
02/17/14	Berm SN-5F	14B0475-01	Solid	Ok	3	2/20/14	0	2/20/14	10X	B090641
02/17/14	Berm SN-15E	14B0475-02	Solid	Ok	3	2/20/14	0	2/20/14	10X	B090641
02/17/14	Berm SN-25T	14B0475-03	Solid	Ok	3	2/20/14	1	2/21/14	100X	B090641
02/17/14	Berm SN-35E	14B0475-04	Solid	Ok	3	2/20/14	1	2/21/14	100X	B090641
02/17/14	Berm SN-45E	14B0475-05	Solid	Ok	3	2/20/14	1	2/21/14	20X	B090641
02/17/14	Berm SN-55E	14B0475-06	Solid	Ok	3	2/20/14	1	2/21/14	500X	B090641
02/17/14	Berm SN-65E	14B0475-07	Solid	Ok	3	2/20/14	0	2/20/14	10X	B090641
02/17/14	Berm SN-75E	14B0475-08	Solid	Ok	3	2/20/14	1	2/21/14	50X	B090641
02/17/14	Berm SN-85E	14B0475-09	Solid	Ok	3	2/20/14	1	2/21/14	1X	B090641
02/17/14	Berm SN-95E	14B0475-10	Solid	Ok	3	2/20/14	0	2/20/14	10X	B090641
02/18/14	Berm SN-105E	14B0475-11	Solid	Ok	2	2/20/14	1	2/21/14	10X	B090641
02/18/14	Berm SN-115E	14B0475-12	Solid	Ok	2	2/20/14	1	2/21/14	500X	B090641
02/18/14	Berm SN-125E	14B0475-13	Solid	Ok	2	2/20/14	1	2/21/14	500X	B090641
02/18/14	Berm SN-135E	14B0475-14	Solid	Ok	2	2/20/14	1	2/21/14	1000X	B090641
02/18/14	Berm SN-145E	14B0475-15	Solid	Ok	2	2/20/14	1	2/21/14	1000X	B090641
02/18/14	Berm SN-145E	14B0475-16	Solid	Ok	2	2/20/14	1	2/21/14	1000X	B090641

Calculations for PCBs - 8082

Lab limits used for validation unless otherwise noted

Sample	Amount	Found	Amount Spiked	%R	Form 3
LC5	0.18	0.2	0.2	90	88
LCSD	0.17	0.2	0.2	85.0	83.8
RPD	5.7			5.7	4.84

Recovery = ((Amount Found - Amount Native) / Amount Spiked) * 100

RPD = ((LC5 - LCSD) / ((LC5 + LCSD) / 2)) * 100

Lab limits used for validation unless otherwise noted.

Sample	Amount	Found	Amount Spiked	%R	Form 3
N/S	75	100	100	0.254	-91.80
RSD	66	100	100	-1.3858	-13.800
RPD	16.67			-42.86	16.3

Recovery = ((Amount Found - Amount Native) / Amount Spiked) * 100

RPD = ((RSD - RSD) / ((RSD + RSD) / 2)) * 100

Calibration NFG June 30/08 PCB criteria used for validation unless otherwise noted
%RSD C₁₇ 27% 1.00R 0.99

Initial Calibration Calculation Check

Date	1/8/14
Instrument	FID 1
Compound	1260 Peak 1
Column	1
Reported Average CF	4.54E+05
Calculated Average CF	460424.0000
Reported RSD	5.7580
Calculated RSD	5.8812
RRF1	4.94E+05
RRF2	4.56E+05
RRF3	4.60E+05
RRF4	4.22E+05
RRF5	487296000
SUM	1841200
(Sum(N-1))^2	267122319
(Sum(N-1))^2/(N-1)	0.058811607
N	4
N-1	3
Reported Average CF	4.54E+05
Calculated Average CF	452675.0000
Reported RSD	5.7400
Calculated RSD	5.8937
RRF1	6.20E+05
RRF2	4.48E+05
RRF3	5.31E+05
RRF4	5.11E+05
RRF5	1.28960000
SUM	2210700
(Sum(N-1))^2	45471.46927
(Sum(N-1))^2/(N-1)	0.08989746
N	4
N-1	3

Reported Amount 511000.00
Calculated Amount 511000.000

Compound Area (A1) 1.02E+08
Compound Conc (C1) 260

Continuing Calibration Calculation Check NFG --: 1.5%DI C₁₇s

Date	2/23/14
Time	1459
Instrument	ECD 3
Compound	1260 Peak 1
Column	1
Reported Average CF	55.62
Calculated Amount	55.618
Compound Area (A1)	25261875
Compound Conc (C1)	50
TOTAL RSP Peak 1	4.54E+05
Peak 1	55.621
Peak 2	55.441
Peak 3	55.729
Peak 4	55.312
Peak 5	55.246
Area Amt 1260	54.5658
Rsp Amt 1260	54.40
Exp'd Amt 1260	50
Rpd %D	10.1
Cald %D	-0.8%

Surrogate Calculation Check

Lab limits used for validation unless otherwise noted.
NPG 20-150%

SAMPLE Bern 55-65E v7

SURR	AMOUNT FOUND	AMOUNT SPIKED	%R	FORM 2
TCX 1	19.780	20	98.9	98.9
TCX 2	17.561	20	87.8	87.2
DCB 1	13.344	20	66.7	79
DCB 2	16.607	20	83.0	82.8

Quantitation Calculation Check

Sample Bern 55-65E
Lab ID 1480475-07
Compound PCB 1354
Final Result mg/Kg 0.34
Instrument ECD 3

Sample Bern 55-125E
Lab ID 1480475-13
Compound PCB 1248
Final Result mg/Kg 0.6
Instrument ECD 3

Column	Peak 1	Peak 2	Peak 3	Peak 4	Peak 5	CF	Column	Peak 1	Peak 2	Peak 3	Peak 4	Peak 5	CF
Col 1	2.35E+07	6.81E+05	2.24E+07	7.35E+05	3.34E+07	1.28E+06	Col 1	0	1284728	10113589	4.79E+05	17530375	6.68E+05
CF	6.81E+05	2.24E+07	7.35E+05	3.34E+07	1.28E+06	1.76E+07	Col 2	0.0000	19.0732	23.0588	18.1187	25.9473	4.55E+05
CF	2.24E+07	7.35E+05	3.34E+07	1.28E+06	1.76E+07	1.76E+07	CF	4.41E+05	19.0732	23.0588	18.1187	25.9473	4.55E+05
CF	7.35E+05	3.34E+07	1.28E+06	1.76E+07	1.76E+07	1.76E+07	CF	1284728	19.0732	23.0588	18.1187	25.9473	4.55E+05
CF	3.34E+07	1.28E+06	1.76E+07	1.76E+07	1.76E+07	1.76E+07	CF	10113589	23.0588	23.0588	18.1187	25.9473	4.55E+05
CF	1.28E+06	1.76E+07	1.76E+07	1.76E+07	1.76E+07	1.76E+07	CF	4.79E+05	18.1187	18.1187	18.1187	25.9473	4.55E+05
CF	1.76E+07	1.76E+07	1.76E+07	1.76E+07	1.76E+07	1.76E+07	CF	17530375	25.9473	25.9473	25.9473	25.9473	4.55E+05
CF	1.76E+07	1.76E+07	1.76E+07	1.76E+07	1.76E+07	1.76E+07	CF	6.68E+05	25.9473	25.9473	25.9473	25.9473	4.55E+05
Avg Conc ng/L	27.1238	18.160	10.000	0.000	0.000	0.000	Avg Conc ng/L	21.5215	10.000	10.000	10.000	10.000	10.000
Extract Vol g	10.100	10.100	10.100	10.100	10.100	10.100	Extract Vol g	10.000	10.000	10.000	10.000	10.000	10.000
Final Vol ml	10	10	10	10	10	10	Final Vol ml	10	10	10	10	10	10
DF	0.001	0.001	0.001	0.001	0.001	0.001	DF	500	500	500	500	500	500
Conversion %Solids	0.876	0.876	0.876	0.876	0.876	0.876	Conversion %Solids	0.001	0.001	0.001	0.001	0.001	0.001
Final Conc mg/Kg	0.305	0.305	0.305	0.305	0.305	0.305	Final Conc mg/Kg	14.711	14.711	14.711	14.711	14.711	14.711

62

Sample

Lab ID

Compound

Final Result mg/kg

Instrument

Column

Peak 1

CF

Peak 2

CF

Peak 3

CF

Peak 4

CF

Peak 5

CF

Avg Conc mg/L

Extract Vol g

Final Vol mL

DF

Conversion

%Solids

Final Conc mg/kg

Benzo[a]A

Benzo[a]B

Benzo[a]C

Benzo[a]D

Benzo[a]E

Benzo[a]F

Benzo[a]G

Benzo[a]H

Benzo[a]I

Benzo[a]J

Benzo[a]K

Benzo[a]L

Benzo[a]M

Benzo[a]N

Benzo[a]O

Benzo[a]P

Benzo[a]Q

Benzo[a]R

Benzo[a]S

Benzo[a]T

Benzo[a]U

Benzo[a]V

Benzo[a]W

Benzo[a]X

Benzo[a]Y

Benzo[a]Z

Benzo[a]AA

Benzo[a]AB

Benzo[a]AC

Benzo[a]AD

Benzo[a]AE

Benzo[a]AF

Benzo[a]AG

Benzo[a]AH

Benzo[a]AI

Benzo[a]AJ

Benzo[a]AK

Benzo[a]AL

Benzo[a]AM

Benzo[a]AN

Benzo[a]AO

Benzo[a]AP

Benzo[a]AQ

Benzo[a]AR

Benzo[a]AS

Benzo[a]AT

Benzo[a]AU

Benzo[a]AV

Benzo[a]AW

Benzo[a]AX

Benzo[a]AY

Benzo[a]AZ

Benzo[a]BA

Benzo[a]BB

Benzo[a]BC

Benzo[a]BD

Benzo[a]BE

Benzo[a]BF

Benzo[a]BG

Benzo[a]BH

Benzo[a]BI

Benzo[a]BJ

Benzo[a]BK

Benzo[a]BL

Benzo[a]BM

Benzo[a]BN

Benzo[a]BO

Benzo[a]BP

Benzo[a]BQ

Benzo[a]BR

Benzo[a]BS

Benzo[a]BT

Benzo[a]BU

Benzo[a]BV

Benzo[a]BW

Benzo[a]BX

Benzo[a]BY

Benzo[a]BZ

Benzo[a]CA

Benzo[a]CB

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Benzo[a]CD

Benzo[a]CE

Benzo[a]CF

Benzo[a]CG

Benzo[a]CH

Benzo[a]CI

Benzo[a]CJ

Benzo[a]CK

Benzo[a]CL

Benzo[a]CM

Benzo[a]CN

Benzo[a]CO

Benzo[a]CP

Benzo[a]CQ

Benzo[a]CR

Benzo[a]CS

Benzo[a]CT

Benzo[a]CU

Benzo[a]CV

Benzo[a]CW

Benzo[a]CX

Benzo[a]CY

Benzo[a]CZ

Benzo[a]DA

Benzo[a]DB

Benzo[a]DC

Benzo[a]DD

Benzo[a]DE

Benzo[a]DF

Benzo[a]DG

Benzo[a]DH

Benzo[a]DI

Benzo[a]DJ

Benzo[a]DK

Benzo[a]DL

Benzo[a]DM

Benzo[a]DN

Benzo[a]DO

Benzo[a]DP

Benzo[a]DQ

Benzo[a]DR

Benzo[a]DS

Benzo[a]DT

Benzo[a]DU

Benzo[a]DV

Benzo[a]DW

Benzo[a]DX

Benzo[a]DY

Benzo[a]DZ

Benzo[a]EA

Benzo[a]EB

Benzo[a]EC

Benzo[a]ED

Benzo[a]EE

Benzo[a]EF

Benzo[a]EG

Benzo[a]EH

Benzo[a]EI

Benzo[a]EJ

Benzo[a]EK

Benzo[a]EL

Benzo[a]EM

Benzo[a]EN

Benzo[a]EO

Benzo[a]EP

Benzo[a]EQ

Benzo[a]ER

Benzo[a]ES

Benzo[a]ET

Benzo[a]EU

Benzo[a]EV

Benzo[a]EW

Benzo[a]EX

Benzo[a]EY

Benzo[a]EZ

Benzo[a]FA

Benzo[a]FB

Benzo[a]FC

Benzo[a]FD

Benzo[a]FE

Benzo[a]FF

Benzo[a]FG

Benzo[a]FH

Benzo[a]FI

Benzo[a]FJ

Benzo[a]FK

Benzo[a]FL

Benzo[a]FM

Benzo[a]FN

Benzo[a]FO

Benzo[a]FP

Benzo[a]FQ

Benzo[a]FR

Benzo[a]FS

Benzo[a]FT

Benzo[a]FU

Benzo[a]FV

Benzo[a]FW

Benzo[a]FX

Benzo[a]FY

Benzo[a]FZ

Benzo[a]GA

Benzo[a]GB

Benzo[a]GC

Benzo[a]GD

Benzo[a]GE

Benzo[a]GF

Benzo[a]GG

Benzo[a]GH

Benzo[a]GI

Benzo[a]GJ

Benzo[a]GK

Benzo[a]GL

Benzo[a]GM

Benzo[a]GN

Benzo[a]GO

Benzo[a]GP

Benzo[a]GQ

Benzo[a]GR

Benzo[a]GS

Benzo[a]GT

Benzo[a]GU

Benzo[a]GV

Benzo[a]GW

Benzo[a]GX

Benzo[a]GY

Benzo[a]GZ

Benzo[a]HA

Benzo[a]HB

Benzo[a]HC

Benzo[a]HD

Benzo[a]HE

Benzo[a]HF

Benzo[a]HG

Benzo[a]HH

Benzo[a]HI

Benzo[a]HJ

Benzo[a]HK

Benzo[a]HL

Benzo[a]HM

Benzo[a]HN

Benzo[a]HO

Benzo[a]HP

Benzo[a]HQ

Benzo[a]HR

Benzo[a]HS

Benzo[a]HT

Benzo[a]HU

Benzo[a]HV

Benzo[a]HW

Benzo[a]HX

Benzo[a]HY

Benzo[a]HZ

Benzo[a]IA

Benzo[a]IB

Benzo[a]IC

Benzo[a]ID

Benzo[a]IE

Benzo[a]IF

Benzo[a]IG

Benzo[a]IH

Benzo[a]II

Benzo[a]IJ

Benzo[a]IK

Benzo[a]IL

Benzo[a]IM

Benzo[a]IN

Benzo[a]IO

Benzo[a]IP

Benzo[a]IQ

Benzo[a]IR

Benzo[a]IS

Benzo[a]IT

Benzo[a]IU

Benzo[a]IV

Benzo[a]IW

Benzo[a]IX

Benzo[a]IY

Benzo[a]IZ

Benzo[a]JA

Benzo[a]JB

Benzo[a]JC

Benzo[a]JD

Benzo[a]JE

Benzo[a]JF

2 - FORM II

SYSTEM MONITORING COMPOUND SUMMARY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	SDG:	14B0475
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Instrument:	ECD3

	DCB 1 (30% - 150%)	DCB 2 (30% - 150%)	TCX 1 (30% - 150%)	TCX 2 (30% - 150%)
14B0475-01	71.0	69.2	79.2	89.6
14B0475-02	89.8	95.2	95.8	84.5
14B0475-03	-	-	-	- 100X
14B0475-04	-	-	-	- 100X
14B0475-05	81.2	83.0	93.7	84.0
14B0475-06	-	-	-	- 500X
14B0475-07	79.0	82.8	98.9	87.2
14B0475-08	-	-	-	- 50X
14B0475-09	90.1	99.2	94.9	90.7
14B0475-10	77.5	83.7	96.8	86.6
14B0475-11	66.0	70.3	101	89.3
14B0475-12	-	-	-	- 500X
14B0475-13	-	-	-	- 500X
14B0475-14	-	-	-	- 1000X
14B0475-15	-	-	-	- ↓
14B0475-16	-	-	-	- ↓
B090641-BLK1	98.6	97.4	106	96.6
B090641-B51	88.6	83.0	92.0	80.6
B090641-BSD1	76.0	74.0	81.8	71.2
B090641-MS1	82.0	265*	93.1	83.0
B090641-MSD1	78.7	221*	90.5	80.6

Data Path : C:\msdchem\1\data\C22014\
 Data File : C0220039.d
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 20 Feb 2014 21:26 pm
 Operator : JMB
 Sample : 14B0475-C7010X Inst : DUAL ECD3
 Misc :
 ALS Vial : 39 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: FRONT-1016.E
 Integration File signal 2: 1016-BACK.E
 Quant Time: Feb 21 08:04:08 2014
 Quant Method : C:\msdchem\1\methods\3-1260-021914.M
 Quant Title : 1260/1016 01/07/14 12/05/13
 QLast Update : Wed Jan 08 12:49:21 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S TCMX - SU...	3.145	3.507	364.8E6	228.3E6	19.785	17.563
2) S DCB - SCR...	7.222	7.873	219.9E6	150.9E6	15.794	16.603
Target Compounds						
3) L1 1016	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016 - {2}	0.000	0.000	0	0	N.D.	N.D.
5) L1 1016 - {3}	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016 - {4}	0.000	0.000	0	0	N.D.	N.D.
7) L1 1016 - {5}	4.514	5.150	2254824	1221880	4.770	3.968
Sum 1016			2254824	1221880	4.770	3.968
Average 1016					4.770	3.968
8) L7 1260	5.372	6.174	26571663	39217095	58.505	71.997
9) L7 1260 - {2}	5.709	6.315	101.0E6	44236384	74.111	59.254
10) L7 1260 - {3}	6.017	6.615	44405380	25049739	53.943	51.778
11) L7 1260 - {4}	6.196	6.803	45244218	31901158	52.269	60.496
12) L7 1260 - {5}	6.408	6.943	94897856	60206482	52.589	57.865
Sum 1260			312.2E6	200.6E6	291.417	311.389
Average 1260					58.283	62.278

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\msdchem\1\data\022014\
 Data File : 00220039.d
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 20 Feb 2014 21:26 pm
 Operator : JMB
 Sample : 1490475-07@10X Inst : OJAL ECD3
 Misc :
 ALS Vial : 39 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: F-1254.E
 Integration File signal 2: B-1254.E
 Quant Time: Feb 21 08:14:10 2014
 Quant Method : C:\msdchem\1\methods\3-1254-021914.M
 Quant Title : 1254 12/19/13 09/17/13
 QLast Update : Wed Jan 08 12:55:17 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) S TCMX - SU...	3.145	3.507	364.8E6	226.8E6	19.785	17.447
2) S DCB - SUR...	7.222	7.873	219.9E6	150.4E6	15.794	16.554
Target Compounds						
3) L6 1254	4.814	5.499	23515391	15412816	34.550	37.961
4) L6 1254 - {2}	5.240	5.941	22350316	7507997	30.354	20.421 #
5) L6 1254 - {3}	5.339	6.031	33421720	20730261	26.139	31.314
6) L6 1254 - {4}	5.565	0.000	17630108	0	18.210	N.D. d#
7) L6 1254 - {5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254			96917535	43651074	109.294	84.696
Average 1254					27.323	29.899

{f}=RT Delta > 1/2 Window {#}=Amounts differ by > 25% {m}=manual int.

CHECKED BY:
 KARISSA CAGAN
 FEB 21 2014

Sy/caw

660

Data Path : C:\msdchem\1\data\022014\
 Data File : 00220082.d
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Feb 2014 10:26 am
 Operator : JMB
 Sample : 14B0475-13850GX Inst : DUAL ECD3
 Misc :
 ALS Vial : 82 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: F-1248.E
 Integration File signal 2: B-1248.E
 Quant Time: Feb 21 11:07:04 2014
 Quant Method : C:\msdchem\1\methods\3-1248-021914.M
 Quant Title : 1248 12/19/13 08/29/13
 Qlast Update : Wed Jan 08 12:56:10 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume log :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S TCMX - SU...	3.145	3.506	8858016	6578780	0.480	0.506
2) S DCB - SUR...	7.224	7.876	5657911	6142129	0.406	0.896 #
Target Compounds						
3) L5 1248	0.000	4.918	0	8386286	N.D. d	27.904 #
4) L5 1248 - {2}	4.514	5.149	12841728	8358709	19.034	21.602
5) L5 1248 - {3}	4.582	5.460	10113580	9130742	23.057	21.545
6) L5 1248 - {4}	4.849	0.000	14112676	0	18.118	N.D. d#
7) L5 1248 - {5}	4.872	5.699	17330175	10635308	25.949	23.380
Sum 1248			54398159	36511046	86.158	94.431
Average 1248					21.539	23.608

CHECKED BY:
 KARISSA OGDAN
 FEB 21 2014

(f)=RT Delta > 1/2 Window (#)-Amounts differ by > 25% (m)=manual int.

42/60

Data Path : C:\msdchem\1\data\022014\
 Data File : 00220082.d
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Feb 2014 10:26 am
 Operator : JMB
 Sample : 14B0475-132500X Inset : DUAL ECD3
 Misc :
 ALS Vial : 82 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: FRONT-1016.E
 Integration File signal 2: 1016-BACK.E
 Quant Time: Feb 21 11:00:40 2014
 Quant Method : C:\msdchem\1\methods\3-1260-021914.M
 Quant Title : 1260/1016 01/07/14 12/05/13
 QLast Update : Wed Jan 08 12:48:21 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) S TCMX - SU...	3.145	3.506	8858016	6378780	0.480	0.306
2) S DCB - SUR...	7.224	7.876	5657811	8142129	0.406	0.896 #
Target Compounds						
3) L1 1016	3.719	0.000	3504378	0	4.863	N.D. #
4) L1 1016 - (2)	3.865f	4.649	2976846	13929181	10.503	25.899 #
5) L1 1016 - (3)	4.090	4.755	21347556	1897344	24.460	5.027 #
6) L1 1016 - (4)	4.243	4.848	5758378	3801283	15.331	15.788
7) L1 1016 - (5)	4.514	5.149	12841728	8358709	27.165	27.143
Sum 1016			46428886	27986517	82.321	73.857
Average 1016					16.464	18.464
8) L7 1260	5.373	6.174	54058211	73007022	119.024	134.030
9) L7 1260 - (2)	5.710	6.315	195.8E6	81757739	143.599	127.995
10) L7 1260 - (3)	6.018	6.616	89711667	48355274	108.981	99.950
11) L7 1260 - (4)	6.199	6.803	91780314	59073803	106.031	112.025
12) L7 1260 - (5)	6.410	6.943	199.8E6	154.8E6	110.723	148.810 #
Sum 1260			631.1E6	417.0E6	588.359	627.809
Average 1260					117.672	124.562

{f}=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual ent.

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Berm 5N-5E

Lab Sample ID: 14B0475-01 Date(s) Analyzed: 02/20/2014 02/20/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.50	
	2	0.00	0.00	0.00	0.56	11.1



241

69

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***Bern 5N-15E**

Lab Sample ID: 14B0475-02 Date(s) Analyzed: 02/20/2014 02/20/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	1.5	
	2	0.00	0.00	0.00	1.6	8.5



242

70

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

Berm 5N-25E

Lab Sample ID: 14B0475-03 Date(s) Analyzed: 02/21/2014 02/21/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	11	
	2	0.00	0.00	0.00	11	2.8



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Born 5N-35E***SW-846 8082A*

Lab Sample ID: 14B0475-04 Date(s) Analyzed: 02/21/2014 02/21/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%ID
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	20	
	2	0.00	0.00	0.00	20	2.0



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Bern 5N-45E***SW-846 8082A*

Lab Sample ID: 14B0475-05 Date(s) Analyzed: 02/21/2014 02/21/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	3.0	
	2	0.00	0.00	0.00	3.1	4.6



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Born 5N-55E***SW-846 8082A*

Lab Sample ID: 14B0475-06 Date(s) Analyzed: 02/21/2014 02/21/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	42	
	2	0.00	0.00	0.00	40	5.4



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Bern 5N-65E***SW-846 8082A*

Lab Sample ID: 14B0475-07 Date(s) Analyzed: 02/20/2014 02/20/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	0.31	
	2	0.00	0.00	0.00	0.34	9.6
Aroclor-1260	1	0.00	0.00	0.00	0.66	
	2	0.00	0.00	0.00	0.70	6.0



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Bern 5N-75E***SW-846 8082A*

Lab Sample ID: 14B0475-08 Date(s) Analyzed: 02/21/2014 02/21/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	6.4	
	2	0.00	0.00	0.00	6.2	2.7



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Born 5N-85E***SW-846 8082A*

Lab Sample ID: 14B0475-09 Date(s) Analyzed: 02/21/2014 02/21/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	<u>1</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.097</u>	
	<u>2</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.16</u>	<u>48.7</u>
Aroclor-1260	<u>1</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.079</u>	
	<u>2</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.098</u>	<u>21.5</u>

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Berm 5N-95E

Lab Sample ID: 14B0475-10 Date(s) Analyzed: 02/20/2014 02/20/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.33	
	2	0.00	0.00	0.00	0.37	12.6



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Berm 5N-105E

SW-846 8082A

Lab Sample ID: 14B0475-11 Date(s) Analyzed: 02/20/2014 02/20/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	1.1	
	2	0.00	0.00	0.00	1.1	1.8



251

79

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Born 5N-115E***SW-846 8082A*

Lab Sample ID: 14B0475-12 Date(s) Analyzed: 02/21/2014 02/21/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	<u>1</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>42</u>	
	<u>2</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>43</u>	<u>3.1</u>

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Berm 5N-125E

Lab Sample ID: 14B0475-13 Date(s) Analyzed: 02/21/2014 02/21/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	15	
	2	0.00	0.00	0.00	16	8.5
Aroclor-1260	1	0.00	0.00	0.00	80	
	2	0.00	0.00	0.00	85	5.6



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Born 5N-135E***SW-846 8082A*

Lab Sample ID: 1480475-14 Date(s) Analyzed: 02/21/2014 02/21/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CL Pesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	110	
	2	0.00	0.00	0.00	130	14.0

✓



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Berm 5N-145E***SW-846 8082A*

Lab Sample ID: 14B0475-15 Date(s) Analyzed: 02/21/2014 02/21/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	26	
	2	0.00	0.00	0.00	32	19.2
Aroclor-1260	1	0.00	0.00	0.00	170	
	2	0.00	0.00	0.00	180	5.1

✓



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Born 10N-155E***SW-846 8082A*

Lab Sample ID: 14B0475-16 Date(s) Analyzed: 02/21/2014 02/21/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	18	
	2	0.00	0.00	0.00	21	14.3
Aroclor-1260	1	0.00	0.00	0.00	100	
	2	0.00	0.00	0.00	110	8.5



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3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Berm 10N-145E

Laboratory: Con-Test Analytical Laboratory
Client: WSP
Matrix: Soil
Batch: B090641
% Solids: 78.60
Initial/Final: 10 g / 10 mL
Column: 1

Work Order: 14B0475
Project: 5140 Site - Yorkville, NY-PCB
Analysis: SW-846 8082A
Preparation: SW-846 3546
Laboratory ID: B090641-MS1
Sample Lab ID: 14B0475-16

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016	0.254	ND	5.6	2190	40 - 140
Aroclor-1260	0.254	100	78	-9180	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	REC.
Aroclor-1016	0.254	6.0	2370		30	40 - 140
Aroclor-1260	0.254	66	-13800	16.3	30	40 - 140

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Berm 10N-145E

Laboratory: Con-Test Analytical Laboratory
 Client: WSP
 Matrix: Soil
 Batch: B090641
 % Solids: 78.60
 Initial/Final: 10 g / 10 mL
 Column: 2

Work Order: 14B0475
 Project: 5140 Site - Yorkville, NY-PCB
 Analysis: SW-846 8082A
 Preparation: SW-846 3546
 Laboratory ID: B090641-MS1
 Sample Lab ID: 14B0475-16

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	0.254	NO	5.4	2120	40 - 140
Aroclor-1260 [2C]	0.254	110	110	-2500	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	REC.
Aroclor-1016 [2C]	0.254	5.3	2090		30	40 - 140
Aroclor-1260 [2C]	0.254	89	-9910	19.1	30	40 - 140

51



278

76

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1 - FORM I ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Con-Test Analytical Laboratory Work Order: 1480475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090641-MS1 File ID: C0220055.d
Sampled: Prepared: 02/20/14 09:45 Analyzed: 02/21/14 00:53
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	5.6	0.039	0.13	MS-19
11096-82-5	Aroclor-1260	78	0.061	0.13	MS-19

1 - FORM I ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Con-Test Analytical Laboratory
 Client: WSP
 Matrix: Soil
 Sampled:
 Solids:
 Batch: B090641
 Column: 2
 Laboratory ID: B090641-MS1
 Prepared: 02/20/14 09:45
 Preparation: SW-846 3546
 Sequence: S005567
 Calibration:
 Work Order: 14B0475
 Project: 5140 Site - Yorkville, NY-PCB
 File ID: C0220055.d
 Analyzed: 02/21/14 00:53
 Dilution:
 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	5.4	0.039	0.13	MS-19
11096-82-5	Aroclor-1260 [2C]	110	0.061	0.13	MS-19

Data Path : C:\msdchem\1\data\022014\
 Data File : C0220055.G
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Feb 2014 0:53 am
 Operator : JMB
 Sample : B090641-MS105X Inst : DUAL ECD3
 Misc :
 ALS Vial : 55 (Sig #1): 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: FRONT-1016.E
 Integration File signal 2: 1016-BACK.E
 Quant Time: Feb 21 08:04:56 2014
 Quant Method : C:\msdchem\1\methods\3-1260-021914.M
 Quant Title : 1260/1016 01/07/14 12/05/13
 QLast Update : Wed Jan 08 12:48:21 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S TCMX - SU...	3.144	3.507	686.3E6	431.5E6	37.222	33.188
2) S DCB - SUR...	7.222	7.877	456.8E6	962.4E6	32.800	105.911 #
Target Compounds						
3) L1 1016	3.719	4.477	242.8E6	68428898	337.015	350.402
4) L1 1016 - {2}	3.883	4.649	104.2E6	593.8E6	367.618	1104.076 #
5) L1 1016 - {3}	4.089	4.759	965.0E6	137.6E6	1105.686	364.476 #
6) L1 1016 - {4}	4.243	4.848	212.2E6	127.6E6	564.887	530.895
7) L1 1016 - {5}	4.514	5.149	943.0E6	582.3E6	1994.810	1891.030
Sum 1016			2467.2E6	1510.0E6	4370.017	4240.898
Average 1016					874.003	848.176
8) L7 1260	5.373	6.174	4632.6E6	8118.6E6	10199.905	14904.578 #
9) L7 1260 - {2}	5.710	6.316	20149.3E6	10598.2E6	14778.236	16591.996
10) L7 1260 - {3}	6.018	6.616	9218.9E6	6005.9E6	11199.011	12414.086
11) L7 1260 - {4}	6.199	6.804	10626.1E6	8354.7E6	12276.071	15843.418 #
12) L7 1260 - {5}	6.412	6.945	22877.7E6	26206.7E6	12679.399	25187.639 #
Sum 1260			67504.6E6	59284.1E6	61132.681	84941.719
Average 1260					12226.536	16908.344

{f} <RT Delta > 1/2 Window {#}=Amounts differ by > 25% (n)=manual int.

$$\frac{61132.6 \times 12}{12 \times 176} = 77.77$$



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**1 - FORM I
ANALYSIS DATA SHEET****Matrix Spike Dup**

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090641-MSD1 File ID: C0220056.d
Sampled: Prepared: 02/20/14 09:45 Analyzed: 02/21/14 01:06
Solids: Preparation: SW-846.3546 Dilution:
Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	6.0	0.039	0.13	MS-19
11096-82-5	Aroclor-1260	66	0.061	0.13	MS-19



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287

90

1 - FORM I ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090641-MSD1 File ID: C0220055.d
Sampled: Prepared: 02/20/14 09:45 Analyzed: 02/21/14 01:06
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	5.3	0.039	0.13	MS-19
11096-82-5	Aroclor-1260 [2C]	89	0.061	0.13	MS-19

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0475
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B090641	Laboratory ID:	B090641-BS1
Column:	1	Initial/Final:	10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	0.200	0.19	94.2	40 - 140
Aroclor-1260	0.200	0.18	88.0	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016	0.200	0.18	87.7	7.13	30	40 - 140
Aroclor-1260	0.200	0.17	83.8	4.84	30	40 - 140

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0475
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B090641	Laboratory ID:	B090641-BS1
Column:	2	Initial/Final:	10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	0.200	0.18	91.7	40 - 140
Aroclor-1260 [2C]	0.200	0.18	88.3	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016 [2C]	0.200	0.18	87.6	4.58	30	40 - 140
Aroclor-1260 [2C]	0.200	0.16	82.0	7.40	30	40 - 140



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1 - FORM I
ANALYSIS DATA SHEET
LCS

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090641-BS1 File ID: C0220031.d
Sampled: Prepared: 02/20/14 09:45 Analyzed: 02/20/14 19:43
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.19	0.031	0.10	
11096-82-5	Aroclor-1260	0.18	0.048	0.10	



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1 - FORM I
ANALYSIS DATA SHEET
LCS

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090641-BS1 File ID: C0220031.d
Sampled: Prepared: 02/20/14 09:45 Analyzed: 02/20/14 19:43
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.18	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.18	0.048	0.10	

99

Data Path : C:\msdchem\1\data\022014\
 Data File : C0220031.d
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 20 Feb 2014 19:43 pm
 Operator : JMB
 Sample : B090641-BS105K Inst : DUAL ECD3
 Misc :
 ALS Vial : 31 (Sig #1): 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: FRONT-1016.F
 Integration File signal 2: 1016-BACK.F
 Quant Time: Feb 21 08:03:44 2014
 Quant Method : C:\msdchem\1\methods\3-1260-021914.M
 Quant Title : 1260/1016 01/07/14 12/05/13
 QLast Update : Wed Jan 08 12:48:21 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) S TCMX - SU...	3.144	3.506	678.7E6	419.1E6	36.810	32.235
2) S DCB - SUR...	7.222	7.873	482.1E6	301.6E6	34.622	33.193
Target Compounds						
3) L1 1016	3.720	4.476	27003503	7366590	37.474	37.722
4) L1 1016 - {2}	3.834	4.649	10808340	20303734	38.133	37.751
5) L1 1016 - {3}	4.090	4.760	32587340	13357024	37.339	35.387
6) L1 1016 - {4}	4.243	4.849	14283980	8745246	38.028	36.322
7) L1 1016 - {5}	4.514	5.149	17693170	11161295	37.427	36.244
Sum 1016			102.4E6	60933889	188.402	183.426
Average 1016					37.650	36.685
8) L7 1260	5.373	6.173	16805582	20003024	37.002	36.722
9) L7 1260 - {2}	5.709	6.314	48506862	22405976	35.577	35.077
10) L7 1260 - {3}	6.018	6.615	29595870	17225062	35.953	35.604
11) L7 1260 - {4}	6.198	6.803	30020292	18292666	34.082	34.689
12) L7 1260 - {5}	6.409	6.942	59094902	35837542	32.752	34.444
Sum 1260			184.0E6	113.8E6	175.965	176.537
Average 1260					35.193	35.307

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

175.965 ug/L * 1016 = 0.175

CHECKED BY:
 KARRISSA CAGAN
 FEB 21 2014

96

272



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1 - FORM I ANALYSIS DATA SHEET

LCS Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090641-BSD1 File ID: C0220032.d
Sampled: Prepared: 02/20/14 09:45 Analyzed: 02/20/14 19:56
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.18	0.031	0.10	
11096-82-5	Aroclor-1250	0.17	0.048	0.10	



275

97

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1 - FORM I ANALYSIS DATA SHEET

LCS Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 1480475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090641-BSD1 File ID: C0220032.d
Sampled: Prepared: 02/20/14 09:45 Analyzed: 02/20/14 19:56
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.18	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.16	0.048	0.10	

4 - FORM IV

METHOD BLANK SUMMARY

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Blank ID: B090641-BLK1 Batch: B090641 Prepared: 02/20/2014 09:45

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
Berm 5N-105E	14B0475-11	C0220043.d	22:18
Berm 5N-15E	14B0475-02	C0220034.d	20:22
Berm 5N-25E	14B0475-03	C0220075.d	08:50
Berm 5N-35E	14B0475-04	C0220076.d	09:03
Berm 5N-45E	14B0475-05	C0220077.d	09:16
Berm 5N-55E	14B0475-06	C0220078.d	09:29
Berm 5N-65E	14B0475-07	C0220039.d	21:26
Berm 5N-75E	14B0475-08	C0220079.d	09:42
Berm 5N-5E	14B0475-01	C0220033.d	20:09
Berm 5N-95E	14B0475-10	C0220042.d	22:05
Matrix Spike Dup	B090641-MSD1	C0220056.d	01:06
Berm 5N-115E	14B0475-12	C0220081.d	10:13
Berm 5N-125E	14B0475-13	C0220082.d	10:26
Berm 5N-135E	14B0475-14	C0220083.d	10:39
Berm 5N-145E	14B0475-15	C0220084.d	10:52
Berm 10N-155E	14B0475-16	C0220085.d	11:05
LCS	B090641-BS1	C0220031.d	19:43
LCS Dup	B090641-BSD1	C0220032.d	19:56
Matrix Spike	B090641-MS1	C0220055.d	00:53
Berm 5N-85E	14B0475-09	C0220080.d	09:55



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**1 - FORM I
ANALYSIS DATA SHEET**

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090641-BLK1 File ID: C0220030.d
Sampled: Prepared: 02/20/14 09:45 Analyzed: 02/20/14 19:30
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0062	0.020	
11104-28-2	Aroclor-1221		0.020	0.020	
11096-82-5	Aroclor-1260		0.0096	0.020	
11141-16-5	Aroclor-1232		0.012	0.020	
53469-21-9	Aroclor-1242		0.010	0.020	
12672-29-6	Aroclor-1248		0.012	0.020	
11097-69-1	Aroclor-1254		0.0086	0.020	
37324-23-5	Aroclor-1262		0.0082	0.020	
11100-14-4	Aroclor-1268		0.012	0.020	

**1 - FORM I
ANALYSIS DATA SHEET**

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090641-BLK1 File ID: C0220030.d
Sampled: Prepared: 02/20/14 09:45 Analyzed: 02/20/14 19:30
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090641 Sequence: S005567 Calibration: 1400032 Instrument: ECD3
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]		0.0062	0.020	
11096-82-5	Aroclor-1260 [2C]		0.0096	0.020	
11104-28-2	Aroclor-1221 [2C]		0.020	0.020	
11141-16-5	Aroclor-1232 [2C]		0.012	0.020	
53469-21-9	Aroclor-1242 [2C]		0.010	0.020	
12672-29-6	Aroclor-1248 [2C]		0.012	0.020	
11097-69-1	Aroclor-1254 [2C]		0.0086	0.020	
37324-23-5	Aroclor-1262 [2C]		0.0082	0.020	
11100-14-4	Aroclor-1268 [2C]		0.012	0.020	

PREPARATION BENCH SHEET

290

B090641

Con-Test Analytical Laboratory

Printed: 3/12/2014 11:16:10AM

Matrix: Soil

Prepared using: SV-GC - SW-846 3546

Surrogate used: 1402112

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Location	Client	Extraction Comments
14B0475-01	8082	02/20/14	10.1	10				Walk in door 5	WSP	Soils run undilute - Report to MDL
14B0475-02	8082	02/20/14	10.2	10				Walk in door 5	WSP	Soils run undilute - Report to MDL
14B0475-03	8082	02/20/14	10.1	10				Walk in door 5	WSP	Soils run undilute - Report to MDL
14B0475-04	8082	02/20/14	10.1	10				Walk in door 5	WSP	Soils run undilute - Report to MDL
14B0475-05	8082	02/20/14	10.1	10				Walk in door 5	WSP	Soils run undilute - Report to MDL
14B0475-06	8082	02/20/14	10.2	10				Walk in door 5	WSP	Soils run undilute - Report to MDL
14B0475-07	8082	02/20/14	10.1	10				Walk in door 5	WSP	Soils run undilute - Report to MDL
14B0475-08	8082	02/20/14	10.1	10				Walk in door 5	WSP	Soils run undilute - Report to MDL
14B0475-09	8082	02/20/14	10.2	10				Walk in door 5	WSP	Soils run undilute - Report to MDL
14B0475-10	8082	02/20/14	10.4	10				Walk in door 5	WSP	Soils run undilute - Report to MDL
14B0475-11	8082	02/20/14	10	10				Walk in door 5	WSP	Soils run undilute - Report to MDL
14B0475-12	8082	02/20/14	10.2	10				Walk in door 5	WSP	Soils run undilute - Report to MDL
14B0475-13	8082	02/20/14	10	10				Walk in door 5	WSP	Soils run undilute - Report to MDL
14B0475-14	8082	02/20/14	10.3	10				Walk in door 5	WSP	Soils run undilute - Report to MDL
14B0475-15	8082	02/20/14	10.1	10				Walk in door 5	WSP	Soils run undilute - Report to MDL
14B0475-16	8082	02/20/14	10	10				Walk in door 5	WSP	Soils run undilute - Report to MDL
14B0490-01	8082	02/20/14	10	10				Walk in door 5		
14B0490-02	8082	02/20/14	10.1	10				Walk in door 5		
14B0510-01	8082	02/20/14	10.1	10				Walk in door 5		
14B0510-02	8082	02/20/14	10.4	10				Walk in door 5		
B090641-RLK1	QC	02/20/14	10	10						
B090641-B51	QC	02/20/14	10	10	1402138		1000			
B090641-B5D1	QC	02/20/14	10	10	1402138		1000			

Spiking Witnessed By

Date

Preparation Reviewed By

Date

Extractions Received By

Date

BENCH SHEET

291

B090641

Con-Test Analytical Laboratory

Printed: 3/12/2014 11:16:10 AM

Matrix: Soil

Prepared using: SV-GC - SW-846 3546

Surrogate used: 1402112

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Location	Client	Extraction Comments
B090641-MS1	QC	02/20/14	10	10	1402138	14B0475-16	1000			
B090641-MSD1	QC	02/20/14	10	10	1402138	14B0475-16	1000			

Spiking Witnessed By

Date

Preparation Reviewed By

Date

Extracts Received By

Date

Injection Log

C:\msdchem\1\data\022014\

Date	Filename	Lab ID	Sample Info
20 Feb 2014	7:49 am C0220001.d	ISO	
20 Feb 2014	8:02 am C0220002.d	ISO	
20 Feb 2014	8:15 am C0220003.d	ISO	
20 Feb 2014	8:28 am C0220004.d	1260/1016 100	1312045
20 Feb 2014	8:41 am C0220005.d	1254 100	1309167
20 Feb 2014	8:54 am C0220006.d	1248 100	1308296
20 Feb 2014	9:07 am C0220007.d	1242 100	1309266
20 Feb 2014	9:20 am C0220008.d	1232/1268 100	1312248
20 Feb 2014	9:33 am C0220009.d	1221/1262 100	1431037
20 Feb 2014	9:46 am C0220010.d	ISO	
20 Feb 2014	9:59 am C0220011.d	B090482-BLK10TBA	
20 Feb 2014	10:12 am C0220012.d	B090482-BS105X TBA	
20 Feb 2014	10:25 am C0220013.d	B090482-BSD105X TBA	
20 Feb 2014	10:38 am C0220014.d	14B0417-0105X TBA	
20 Feb 2014	10:51 am C0220015.d	ISO	
20 Feb 2014	11:04 am C0220016.d	1260/1016 50	
20 Feb 2014	11:17 am C0220017.d	14B0331-0305X TBA	
20 Feb 2014	11:30 am C0220018.d	14B0331-0405X TBA	
20 Feb 2014	11:43 am C0220019.d	14B0406-0105X TBA	
20 Feb 2014	11:56 am C0220020.d	ISO	
20 Feb 2014	12:09 pm C0220021.d	1260/1016 100	
20 Feb 2014	13:41 pm C0220022.d	ISO	
20 Feb 2014	13:54 pm C0220023.d	B090542-BS10S NWL	
20 Feb 2014	14:07 pm C0220024.d	B090542-BS23S NWL	
20 Feb 2014	14:20 pm C0220025.d	B090542-BS33S NWL	
20 Feb 2014	14:33 pm C0220026.d	B090542-BS43S NWL	
20 Feb 2014	14:46 pm C0220027.d	ISO	
20 Feb 2014	14:59 pm C0220028.d	1260/1016 50	
20 Feb 2014	19:17 pm C0220029.d	ISO	
20 Feb 2014	19:30 pm C0220030.d	B090641-BLK1	
20 Feb 2014	19:43 pm C0220031.d	B090641-BS105X	
20 Feb 2014	19:56 pm C0220032.d	B090641-BSD105X	
20 Feb 2014	20:09 pm C0220033.d	14B0475-01010X	
20 Feb 2014	20:22 pm C0220034.d	14B0475-02010X	
20 Feb 2014	20:34 pm C0220035.d	14B0475-03010X	
20 Feb 2014	20:47 pm C0220036.d	14B0475-04010X	
20 Feb 2014	21:00 pm C0220037.d	14B0475-05010X	
20 Feb 2014	21:13 pm C0220038.d	14B0475-06010X	
20 Feb 2014	21:26 pm C0220039.d	14B0475-07010X	
20 Feb 2014	21:39 pm C0220040.d	14B0475-08010X	
20 Feb 2014	21:52 pm C0220041.d	14B0475-09010X	
20 Feb 2014	22:05 pm C0220042.d	14B0475-10010X	
20 Feb 2014	22:18 pm C0220043.d	14B0475-11010X	
20 Feb 2014	22:31 pm C0220044.d	14B0475-12010X	
20 Feb 2014	22:44 pm C0220045.d	ISO	
20 Feb 2014	22:57 pm C0220046.d	1260/1016 100	
20 Feb 2014	23:10 pm C0220047.d	14B0475-13010X	
20 Feb 2014	23:23 pm C0220048.d	14B0475-14010X	
20 Feb 2014	23:36 pm C0220049.d	14B0475-15010X	
20 Feb 2014	23:49 pm C0220050.d	14B0475-16010X	
21 Feb 2014	0:02 am C0220051.d	14B0490-0105X	
21 Feb 2014	0:14 am C0220052.d	14B0490-0205X	
21 Feb 2014	0:27 am C0220053.d	14B0510-0105X	
21 Feb 2014	0:40 am C0220054.d	14B0510-0205X	
21 Feb 2014	0:53 am C0220055.d	B090641-MS105X	
21 Feb 2014	1:06 am C0220056.d	B090641-MSD105X	
21 Feb 2014	1:19 am C0220057.d	ISO	

Injection Log

C:\msdchem\1\data\022014\

Date		Filename	Lab ID	Sample Info
21 Feb 2014	1:32 am	C0220058.d	1260/1016 50	
21 Feb 2014	1:45 am	C0220059.d	B090609-SLK1	
21 Feb 2014	1:58 am	C0220060.d	B090609-BSD105X	
21 Feb 2014	2:11 am	C0220061.d	B090609-BSD105X	
21 Feb 2014	2:24 am	C0220062.d	14B0503-1905X	
21 Feb 2014	2:37 am	C0220063.d	14B0503-2005X	
21 Feb 2014	2:50 am	C0220064.d	14B0503-2105X	
21 Feb 2014	3:02 am	C0220065.d	14B0503-2205X	
21 Feb 2014	3:15 am	C0220066.d	14B0503-2305X	
21 Feb 2014	3:28 am	C0220067.d	14B0503-2405X	
21 Feb 2014	3:41 am	C0220068.d	B090609-MS105X	
21 Feb 2014	3:54 am	C0220069.d	B090609-MSD105X	
21 Feb 2014	4:07 am	C0220070.d	ISO	
21 Feb 2014	4:20 am	C0220071.d	1260/1016 100	
21 Feb 2014	8:12 am	C0220072.d	ISO	
21 Feb 2014	8:25 am	C0220073.d	13B0584-C1 LOT CHECK	
21 Feb 2014	8:38 am	C0220074.d	1260/1016 100	
21 Feb 2014	8:50 am	C0220075.d	14B0475-C30100X	
21 Feb 2014	9:03 am	C0220076.d	14B0475-C40100X	
21 Feb 2014	9:16 am	C0220077.d	14B0475-05020X	
21 Feb 2014	9:29 am	C0220078.d	14B0475-060500X	
21 Feb 2014	9:42 am	C0220079.d	14B0475-08050X	
21 Feb 2014	9:55 am	C0220080.d	14B0475-09	
21 Feb 2014	10:13 am	C0220081.d	14B0475-120500X	
21 Feb 2014	10:26 am	C0220082.d	14B0475-130500X	
21 Feb 2014	10:39 am	C0220083.d	14B0475-1401000X	
21 Feb 2014	10:52 am	C0220084.d	14B0475-1501000X	
21 Feb 2014	11:05 am	C0220085.d	14B0475-1601000X	
21 Feb 2014	11:18 am	C0220086.d	14B0503-22025X	
21 Feb 2014	11:31 am	C0220087.d	ISO	
21 Feb 2014	11:44 am	C0220088.d	1260/1016 50	
21 Feb 2014	19:07 pm	C0220089.d	ISO	
21 Feb 2014	19:20 pm	C0220090.d	14B0510-C1050X	
21 Feb 2014	19:32 pm	C0220091.d	14B0510-02050X	
21 Feb 2014	19:45 pm	C0220092.d	ISO	
21 Feb 2014	19:58 pm	C0220093.d	1260/1016 100	

Method Path : C:\msdchem\1\methods\
 Method File : 3-1260-010714C.M
 Title : 1260/1016 01/07/14 12/05/13
 Last Update : Wed Jan 08 12:46:21 2014
 Response Via : Initial Calibration

Calibration Files

5 =C0107015.d 10 =C0107016.d 20 =C0107017.d
 50 =C0107018.d 100 =C0107019.d 200 =C0107020.d

Compound	5	10	20	50	100	200	Avg	SRSD
1) S TCMX - SURROGATE	1.909	1.876	1.862	1.793	1.878	1.795	1.844	E7 2.65
2) S DCB - SURROGATE	1.435	1.416	1.379	1.326	1.415	1.393	1.393	E7 2.54
3) L1 1016			7.704	7.197	7.715	6.740	7.206	E5 6.97
4) L1 1016 - {2}			3.124	2.782	2.814	2.729	2.834	E5 5.88
5) L1 1016 - {3}			9.046	8.539	8.871	8.613	8.727	E5 2.54
6) L1 1016 - {4}			3.902	3.767	3.777	3.680	3.756	E5 2.59
7) L1 1016 - {5}			5.204	4.747	4.738	4.492	4.727	E5 6.32
8) L7 1260			4.943	4.555	4.600	4.319	4.542	E5 5.79
9) L7 1260 - {2}			1.461	1.353	1.383	1.313	1.363	E6 4.56
10) L7 1260 - {3}			9.271	8.055	8.254	7.826	8.232	E5 7.08
11) L7 1260 - {4}			9.057	8.487	8.837	8.451	8.656	E5 3.21
12) L7 1260 - {5}			1.812	1.758	1.834	1.802	1.804	E6 1.57

Signal #2 Calibration Files

5 =C0107015.d 10 =C0107016.d 20 =C0107017.d
 50 =C0107018.d 100 =C0107019.d 200 =C0107020.d

Compound	5	10	20	50	100	200	Avg	SRSD
1) S TCMX - SURROGATE	1.301	1.427	1.298	1.239	1.309	1.262	1.300	E7 4.71
2) S DCB - SURROGATE	9.895	9.309	8.791	8.398	9.014	9.059	9.037	E6 5.07
3) L1 1016			2.314	2.047	1.957	1.754	1.953	E5 12.72
4) L1 1016 - {2}			6.355	5.239	5.248	4.980	5.378	E5 10.59
5) L1 1016 - {3}			4.412	3.751	3.795	3.485	3.773	E5 10.34
6) L1 1016 - {4}			2.820	2.432	2.392	2.220	2.408	E5 10.59
7) L1 1016 - {5}			3.687	3.143	3.033	2.785	3.079	E5 12.27
8) L7 1260			6.203	5.484	5.309	5.111	5.447	E5 8.24
9) L7 1260 - {2}			7.193	6.408	6.392	5.981	6.388	E5 7.80
10) L7 1260 - {3}			5.640	4.924	4.807	4.438	4.838	E5 10.44
11) L7 1260 - {4}			6.020	5.347	5.269	4.879	5.273	E5 8.98
12) L7 1260 - {5}			1.112	1.035	1.050	1.000	1.040	E6 4.35

(#) - Out of Range ### Number of calibration levels exceeded format ###

Method Path : C:\msdchem\1\methods\
 Method File : 3-1260-010714C.M
 Title : 1260/1016 G1/07/14 12/05/13
 Last Update : Wed Jan 08 12:48:21 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\010714\C0107015.d
2	10	10	0	C:\msdchem\1\data\010714\C0107016.d
3	20	20	0	C:\msdchem\1\data\010714\C0107017.d
4	50	50	0	C:\msdchem\1\data\010714\C0107018.d
5	100	100	0	C:\msdchem\1\data\010714\C0107019.d
6	200	200	0	C:\msdchem\1\data\010714\C0107020.d
7	250	250	0	C:\msdchem\1\data\010714\C0107021.d

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Jan 08 12:48 2014	Jan 08 12:48 2014	08 Jan 2014 9:00 am
2	10	Jan 08 12:48 2014	Jan 08 12:48 2014	08 Jan 2014 9:13 am
3	20	Jan 08 12:48 2014	Jan 08 12:48 2014	08 Jan 2014 9:26 am
4	50	Jan 08 12:48 2014	Jan 08 12:48 2014	08 Jan 2014 9:39 am
5	100	Jan 08 12:48 2014	Jan 08 12:48 2014	08 Jan 2014 9:52 am
6	200	Jan 08 12:48 2014	Jan 08 12:48 2014	08 Jan 2014 10:05 am
7	250	Jan 08 12:48 2014	Jan 08 12:48 2014	08 Jan 2014 10:18 am

3-1260-010714C.M Wed Jan 08 12:49:24 2014

Data Path : C:\msdchem\1\data\010714\
 Data File : C0107020.d
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 08 Jan 2014 10:05 am
 Operator : JMB
 Sample : 1260/1016 200 Inst : DUAL ECD3
 Misc :
 ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: FRONT-1016.E
 Integration File signal 2: 1016-BACK.E
 Quant Time: Jan 08 12:48:21 2014
 Quant Method : C:\msdchem\1\methods\3-1260-010714C.M
 Quant Title : 1260/1016 01/07/14 12/05/13
 QLast Update : Wed Jan 08 12:48:21 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S TCMX - SJ...	3.223	3.585	3569.8E6	2523.1E6	192.630	191.906
2) S DCB - SCR...	7.294	7.963	2785.7E6	1811.8E6	199.813	199.511
Target Compounds						
3) L1 1016	3.800	4.561	134.8E6	35073376	178.814	166.535
4) L1 1016 - {2}	3.966	4.734	54589945	99598774	187.805	176.367
5) L1 1016 - {3}	4.173	4.847	172.3E6	69703797	195.328	174.881
6) L1 1016 - {4}	4.328	4.935	73608262	44392376	192.923	174.234
7) L1 1016 - {5}	4.600	5.237	89037300	35700851	183.472	169.420
Sum 1016			525.1E6	304.5E6	938.341	861.437
Average 1016					187.668	172.287
8) L7 1260	5.463	6.253	86382886	102.2E6	183.821	180.426
9) L7 1260 - {2}	5.800	6.390	262.6E6	119.6E6	187.777	175.504
10) L7 1260 - {3}	6.101	6.687	156.5E6	88758944	183.921	173.226
11) L7 1260 - {4}	6.278	6.872	169.0E6	97578811	192.202	175.966
12) L7 1260 - {5}	6.484	7.010	360.5E6	200.1E6	200.113	187.701
Sum 1260			1035.0E6	608.2E6	947.834	896.824
Average 1260					189.567	179.365

(f)~RT Delta > 1/2 Window (#)~Amounts differ by > 25% (n)~manual int.

108

Method Path : C:\msocem\1\methods\
 Method File : 3-1254-121913C.M
 Title : 1254 12/19/13 09/17/13
 Last Update : Thu Dec 19 14:54:48 2013
 Response Var : Initial Calibration

Calibration Files

5 =C1219011.d 10 =C1219012.d 20 =C1219013.d
 50 =C1219014.d 100 =C1219015.d 200 =C1219016.d

	Compound	5	10	20	50	100	200	Avg	RSD
1)	S TCMX - SURROGATE	2.098	2.041	1.989	1.971	1.898	1.884	1.961	E7 4.59
2)	S DCB - SURROGATE	1.581	1.523	1.443	1.433	1.383	1.424	1.456	E7 4.85
3)	L6 1254			7.687	6.908	6.665	6.439	6.806	E5 7.94
4)	L6 1254 - {2}			8.058	7.380	7.258	7.066	7.353	E5 5.73
5)	L6 1254 - {3}			1.480	1.249	1.246	1.213	1.279	E6 9.95
6)	L6 1254 - {4}			1.057	0.965	0.956	0.935	0.968	E6 5.39
7)	L6 1254 - {5}			1.449	1.329	1.323	1.283	1.327	E6 5.66

Signal #2 Calibration Files

5 =C1219011.d 10 =C1219012.d 20 =C1219013.d
 50 =C1219014.d 100 =C1219015.d 200 =C1219016.d

	Compound	5	10	20	50	100	200	Avg	RSD
1)	S TCMX - SURROGATE	1.067	0.994	0.974	1.035	1.010	1.068	1.027	E7 3.38
2)	S DCB - SURROGATE	1.039	0.951	0.916	0.932	0.873	0.960	0.950	E7 3.46
3)	L6 1254			4.988	4.153	3.924	3.817	4.060	E5 14.35
4)	L6 1254 - {2}			4.507	3.742	3.527	3.437	3.677	E5 13.80
5)	L6 1254 - {3}			7.897	6.647	6.354	6.311	6.620	E5 11.52
6)	L6 1254 - {4}			3.869	3.309	3.047	2.944	3.196	E5 13.07
7)	L6 1254 - {5}			7.581	6.642	6.202	5.080	6.489	E5 10.25

{#} = Out of Range ### Number of calibration levels exceeded format ###

109

Method Path : C:\msdchem\1\methods\
 Method File : 3-1248-121913C.M
 Title : 1248 12/19/13 08/29/13
 Last Update : Thu Dec 19 17:01:44 2013
 Response Via : Initial Calibration

Calibration Files

5 -C1219011.d 10 -C1219012.d 20 -C1219013.d
 50 -C1219014.d 100 -C1219015.d 200 -C1219016.d

	Compound	5	10	20	50	100	200	Avg	URSD
1) S	TCMX - SURROGATE	2.098	2.041	1.989	1.971	1.898	1.884	1.961	E7 4.59
2) S	DCB - SURROGATE	1.501	1.523	1.443	1.433	1.383	1.424	1.456	E7 4.85
3) L5	1248			4.326	4.392	4.166	4.365	4.413	E5 5.59
4) L5	1248 - {2}			7.395	6.805	6.317	6.572	6.747	E5 7.52
5) L5	1248 - {3}			4.910	4.419	4.119	4.282	4.366	E5 7.13
6) L5	1248 - {4}			8.380	7.816	7.369	7.745	7.789	E5 4.72
7) L5	1248 - {5}			7.003	6.693	6.364	6.728	6.679	E5 3.45

Signal #2 Calibration Files

5 -C1219011.d 10 -C1219012.d 20 -C1219013.d
 50 -C1219014.d 100 -C1219015.d 200 -C1219016.d

	Compound	5	10	20	50	100	200	Avg	URSD
1) S	TCMX - SURROGATE	1.067	0.994	0.974	1.035	1.010	1.058	1.027	E7 3.38
2) S	DCB - SURROGATE	1.039	0.981	0.916	0.932	0.873	0.960	0.950	E7 5.48
3) L5	1248			3.686	3.158	2.831	2.745	3.005	E5 14.33
4) L5	1248 - {2}			4.615	3.998	3.624	3.652	3.869	E5 11.91
5) L5	1248 - {3}			5.082	4.350	3.933	3.997	4.238	E5 12.05
6) L5	1248 - {4}			5.598	4.823	4.378	4.495	4.719	E5 11.23
7) L5	1248 - {5}			5.578	4.612	4.182	4.194	4.549	E5 13.28

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method Path : C:\msdchem\1\methods\
 Method File : 3-1248-121913C.M
 Title : 1248 12/19/13 08/29/13
 Last Update : Thu Dec 19 17:01:44 2013
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\121913\C1219011.d
2	10	10	0	C:\msdchem\1\data\121913\C1219012.d
3	20	20	0	C:\msdchem\1\data\121913\C1219013.d
4	50	50	0	C:\msdchem\1\data\121913\C1219014.d
5	100	100	0	C:\msdchem\1\data\121913\C1219015.d
6	200	200	0	C:\msdchem\1\data\121913\C1219016.d
7	250	250	0	C:\msdchem\1\data\121913\C1219017.d

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Dec 19 17:01 2013	Dec 19 14:54 2013	19 Dec 2013 9:55 am
2	10	Dec 19 17:01 2013	Dec 19 14:54 2013	19 Dec 2013 10:08 am
3	20	Dec 19 17:01 2013	Dec 19 14:54 2013	19 Dec 2013 10:21 am
4	50	Dec 19 17:01 2013	Dec 19 14:54 2013	19 Dec 2013 10:33 am
5	100	Dec 19 17:01 2013	Dec 19 14:54 2013	19 Dec 2013 10:46 am
6	200	Dec 19 17:01 2013	Dec 19 14:54 2013	19 Dec 2013 10:59 am
7	250	Dec 19 17:01 2013	Dec 19 14:54 2013	19 Dec 2013 11:12 am

3-1248-121913C.M Thu Dec 19 17:01:59 2013

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	1480475
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD3	Calibration:	1400032
Lab File ID:	C0220004.d	Calibration Date:	12/19/13 00:00
Sequence:	S005567	Injection Date:	02/20/14
Lab Sample ID:	S005567-CCV1	Injection Time:	08:28

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	101				1.3	15
Aroclor-1016 [2C]	A	100	95.5				-4.5	15
Aroclor-1260	A	100	97.4				-2.6	15
Aroclor-1260 [2C]	A	100	91.6				-8.4	15
Decachlorobiphenyl	A	100	91.2	1.392574E+07	1.2703E+07		-8.8	
Decachlorobiphenyl [2C]	A	100	94.1	9086313	8552000		-5.9	
Tetrachloro-m-xylene	A	100	96.5	1.843653E+07	1.7797E+07		-3.5	
Tetrachloro-m-xylene [2C]	A	100	85.6	1.30018E+07	1.1131E+07		-14.4	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Instrument ID: ECD3 Calibration: 1400032
Lab File ID: C0220005.d Calibration Date: 12/19/13 00:00
Sequence: S005567 Injection Date: 02/20/14
Lab Sample ID: S005567-CCV2 Injection Time: 08:41

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254	A	100	87.8				-12.2	15
Aroclor-1254 [2C]	A	100	98.7				-1.3	15
Decachlorobiphenyl	A	100	90.1	1.392574E+07	1.2548E+07		-9.9	
Decachlorobiphenyl [2C]	A	100	92.2	9086313	8382000		-7.8	
Tetrachloro-m-xylene	A	100	95.3	1.843553E+07	1.757E+07		-4.7	
Tetrachloro-m-xylene [2C]	A	100	84.4	1.30018E+07	1.0973E+07		-15.6	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



38 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-8405 * TEL 413/525-2332

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0475
Client:	WSP	Project:	514D Site - Yorkville, NY-PCB
Instrument ID:	ECD3	Calibration:	1400032
Lab File ID:	C0220006.d	Calibration Date:	12/19/13 00:00
Sequence:	S005567	Injection Date:	02/20/14
Lab Sample ID:	S005567-CCV3	Injection Time:	08:54

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1248	A	100	89.2				-10.8	15
Aroclor-1248 [2C]	A	100	92.1				-7.9	15
Decachlorobiphenyl	A	100	96.4	1.392574E+07	1.3418E+07		-3.6	
Decachlorobiphenyl [2C]	A	100	103	9086313	9327000		2.6	
Tetrachloro-m-xylene	A	100	105	1.843653E+07	1.9411E+07		5.3	
Tetrachloro-m-xylene [2C]	A	100	93.9	1.30018E+07	1.2208E+07		-6.1	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0475
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Instrument ID: ECD3 Calibration: 1400032
Lab File ID: C0220028.d Calibration Date: 12/19/13 00:00
Sequence: S005567 Injection Date: 02/20/14
Lab Sample ID: S005567-CCV4 Injection Time: 14:59

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	50.0	57.7				15.4	15
Aroclor-1016 [2C]	A	50.0	55.3				10.5	15
Aroclor-1260	A	50.0	55.1				10.1	15
Aroclor-1260 [2C]	A	50.0	54.5				9.0	15
Decachlorobiphenyl	A	50.0	52.2	1.392574E+07	1.4548E+07		4.5	
Decachlorobiphenyl [2C]	A	50.0	53.4	9086313	9706000		6.8	
Tetrachloro-m-xylene	A	50.0	54.8	1.843653E+07	2.0188E+07		9.5	
Tetrachloro-m-xylene [2C]	A	50.0	47.5	1.30018E+07	1.2358E+07		-4.9	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data Path : C:\msdchem\1\data\022014\
 Data File : C0220028.d
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 20 Feb 2014 14:59 pm
 Operator : JMB
 Sample : 1260/1016 50 Inst : DUAL ECD3
 Misc :
 AJS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: FRCNT-1016.E
 Integration File signal 2: 1016-BACK.E
 Quant Time: Feb 20 15:09:17 2014
 Quant Method : C:\msdchem\1\methods\3-1260-021914.M
 Quant Title : 1260/1016 01/07/14 12/05/13
 QLast Update : Wed Jan 08 12:48:21 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) S TCMX - SU...	3.143	3.505	1009.4E6	617.9E6	54.751	47.523
2) S DCB - SUR...	7.221	7.873	727.4E6	495.3E6	52.236	53.410
Target Compounds						
3) L1 1016	3.717	4.475	46058021	11046553	63.917	56.566
4) L1 1016 - {2}	3.883	4.648	16060496	30195454	56.663	56.143
5) L1 1016 - {3}	4.088	4.760	48217884	20882122	55.249	55.323
6) L1 1016 - {4}	4.242	4.848	21571272	13009410	57.429	54.332
7) L1 1016 - {5}	4.513	5.149	26113632	16689318	55.239	54.196
Sum 1016			158.0E6	91822858	268.498	276.259
Average 1016					57.700	55.252
8) L7 1260	5.371	6.173	25261895	28796227	55.621	52.847
9) L7 1260 - {2}	5.708	6.314	75590838	35222547	55.441	55.142
10) L7 1260 - {3}	6.017	6.615	45875727	26460469	55.729	54.694
11) L7 1260 - {4}	6.197	6.803	47878829	28770969	55.313	54.560
12) L7 1260 - {5}	6.408	6.942	96071932	57522796	53.246	53.286
Sum 1260			290.7E6	176.8E6	275.350	272.529
Average 1260					55.070	54.506

{f}~RT Delta > 1/2 Window {#}=Amounts differ by > 25% {m}~manual int.



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7 - FORM VII
CONTINUING CALIBRATION VERIFICATION
SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0475
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD3	Calibration:	1400032
Lab File ID:	C0220046.d	Calibration Date:	12/19/13 00:00
Sequence:	S005567	Injection Date:	02/20/14
Lab Sample ID:	S005567-CCV5	Injection Time:	22:57

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	115				15.4	15
Aroclor-1016 [2C]	A	100	105				5.3	15
Aroclor-1260	A	100	107				7.3	15
Aroclor-1260 [2C]	A	100	100				0.4	15
Decachlorobiphenyl	A	100	99.4	1.392574E+07	1.3837E+07		-0.6	
Decachlorobiphenyl [2C]	A	100	104	9086313	9410000		3.6	
Tetrachloro-m-xylene	A	100	111	1.843653E+07	2.053E+07		11.4	
Tetrachloro-m-xylene [2C]	A	100	99.0	1.30018E+07	1.2872E+07		-1.0	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0475
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD3	Calibration:	1400032
Lab File ID:	C0220058.d	Calibration Date:	12/19/13 00:00
Sequence:	S005567	Injection Date:	02/21/14
Lab Sample ID:	S005567-CCV6	Injection Time:	01:32

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	50.0	57.9				15.9	15
Aroclor-1016 [2C]	A	50.0	55.5				11.0	15
Aroclor-1260	A	50.0	56.0				11.9	15
Aroclor-1260 [2C]	A	50.0	52.9				5.9	15
Decachlorobiphenyl	A	50.0	49.5	1.392574E+07	1.3798E+07		-0.9	
Decachlorobiphenyl [2C]	A	50.0	53.0	9088313	9832000		6.0	
Tetrachloro-m-xylene	A	50.0	55.3	1.843653E+07	2.0396E+07		10.6	
Tetrachloro-m-xylene [2C]	A	50.0	48.4	1.30018E+07	1.2584E+07		-3.2	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



39 Spruce Street * East Longmeadow, MA 01026 * FAX 413/525-5405 * TEL. 413/525-2332

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	1480475
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD3	Calibration:	1400032
Lab File ID:	C0220074.d	Calibration Date:	12/19/13 00.00
Sequence:	S005567	Injection Date:	02/21/14
Lab Sample ID:	S005567-CCV7	Injection Time:	08:38

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	110				10.4	15
Aroclor-1016 [2C]	A	100	106				5.5	15
Aroclor-1260	A	100	111				10.9	15
Aroclor-1260 [2C]	A	100	104				4.0	15
Decachlorobiphenyl	A	100	104	1.392574E+07	1.4442E+07		3.7	
Decachlorobiphenyl [2C]	A	100	106	9086313	9627000		5.9	
Tetrachloro-m-xylene	A	100	112	1.843853E+07	2.0662E+07		12.1	
Tetrachloro-m-xylene [2C]	A	100	99.2	1.30018E+07	1.2903E+07		-0.8	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	1480475
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD3	Calibration:	1400032
Lab File ID:	C0220088.d	Calibration Date:	12/19/13 00:00
Sequence:	S005567	Injection Date:	02/21/14
Lab Sample ID:	S005567-CCV8	Injection Time:	11:44

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	113				12.7	15
Aroclor-1016 [2C]	A	100	108				8.4	15
Aroclor-1260	A	100	108				8.0	15
Aroclor-1260 [2C]	A	100	105				4.8	15
Decachlorobiphenyl	A	100	99.3	1.392574E+07	1.3829E+07		-0.7	
Decachlorobiphenyl [2C]	A	100	110	9086313	9994000		10.0	
Tetrachloro-m-xylene	A	100	112	1.843653E+07	2.0566E+07		11.5	
Tetrachloro-m-xylene [2C]	A	100	98.5	1.30018E+07	1.2803E+07		-1.5	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data Validation Report

**WSP Group
5140 Commercial Dr.
Yorkville, New York**

SDG# 14B0517



ECT.CON INC.

Environmental and Computer
Technology Consultants

115 Riverview Bend South Unit 2144
Palm Coast, FL 32137
Office (386) 283-9360
Cell (724) 288-1971
e-mail: ectconinc@mac.com

DATA VALIDATION REPORT

Project Name: 5140 Commercial Dr. Yorkville, NY
 SDG #: 14B0517

 Performed for: WSP

 Laboratory: Con-test Analytical Laboratory

 Validation Performed by: ECT, CON INC
 Validation Guidance: USEPA CLP National Functional Guidelines for Organic
 Data Review (NFG)

 Validation Report Date: 5/7/14

Samples/Matrix:

	Sample Date	Sample ID	Laboratory ID	Matrix
1	02/19/14	N. Footer Conc.	14B0517-01	Solid
2	02/19/14	Berm 5N-155E	14B0517-02	Solid
3	02/19/14	Berm 5N-165E	14B0517-03	Solid
4	02/19/14	Berm 5N-175E	14B0517-04	Solid
5	02/19/14	Berm 5N-185E	14B0517-05	Solid
6	02/19/14	Berm 5N-195E	14B0517-06	Solid
7	02/19/14	Berm 5N-205E	14B0517-07	Solid
8	02/19/14	Berm 10N-205E	14B0517-08	Solid

This sample set consists of the following:

Field Samples :	7
Trip Blanks :	0
Equipment Blanks :	0
Field Blanks :	0
Field Duplicates:	1

Analytical data in this report were reviewed to determine analytical limitations of the data based on specific quality control criteria. This review is performed on a laboratory signed data package. The laboratory signature indicates that the laboratory has reviewed and has certified that the information provided in the data package are correct and complete.

The results of the review are an interpretation of the reported quality control information provided by the laboratory in comparison to the specified validation criteria for the project. Laboratory calculations have been verified as part of the validation. Form 1's and/or analytical results sheets are annotated with the results of the validation.

This evaluation was conducted in accordance with the requested validation guidelines, project requirement and the analytical method. Findings from this validation should be considered when using the analytical data.

The organic findings are based on the validation of the following:

- Sample Preservation
- Holding Times
- Initial Calibration
- Continuing Calibration
- Blanks (lab and field)
- System Monitoring Compounds
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- Laboratory Control Sample (LCS)
- Target Compound Identification
- Compound Quantification and Quantitation Limits
- System Performance

This report consists of the validation findings. This is followed by annotated Form 1's. The final section of the report is supporting documentation. This consists of the Chain of Custody, laboratory case narrative and the validation worksheets.

Project Number: 14B0517

Method Number **Description**
 SW-846 8082 Polychlorinated Biphenyls (PCBs)

				PCB
	Sample Date	Sample ID	Laboratory ID	Matrix
1	02/19/14	N. Footer Conc.	14B0517-01	Solid
2	02/19/14	Berm 5N-155E	14B0517-02	Solid
3	02/19/14	Berm 5N-165E	14B0517-03	Solid
4	02/19/14	Berm 5N-175E	14B0517-04	Solid
5	02/19/14	Berm 5N-185E	14B0517-05	Solid
6	02/19/14	Berm 5N-195E	14B0517-06	Solid
7	02/19/14	Berm 5N-205E	14B0517-07	Solid
8	02/19/14	Berm 10N-205E	14B0517-08	Solid

8

FINDINGS

POLYCHLORINATED BIPHENYLS

1. The continuing calibration percent difference for Aroclor 1254 exceeded the 15% quality control limit on one analytical column on instrument ECD 4. In the following samples, positive results for Aroclor 1254 were qualified as estimated, "J."

Berm 5N-155E

Berm 5N-165E

Berm 5N-175E

Berm 5N-185E

Berm 5N-195E

Berm 5N-205E

Berm 10N-205E

NOTES

POLYCHLORINATED BIPHENYLS

A. On instrument ECD 4's analytical sequence, standards for Aroclor 1242, 1232, 1221, 1262, and 1268 are listed as part of the sequence. The quantitation reports for these compounds were not included in the data package. This is noted for completeness only. Data were not qualified on this basis.

B. Surrogate recoveries were not reported for several samples. The noncompliance was due to the necessary dilution of the sample extracts prior to analysis. Data were not qualified on this basis.

Berm 5N-155E Berm 5N-165E Berm 5N-185E Berm 5N-195E

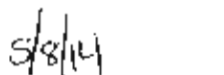
C. Matrix spike/matrix spike duplicate recoveries were outside the laboratory's quality control limits for Berm 5N-155E MS/MSD. The concentration of target compounds in the unspiked sample were greater than 4X the spike amount. Data were not qualified on this basis.

D. The following samples were analyzed and reported at the listed dilution factors due to the presence of target compounds and/or matrix interferences. Data were not qualified on this basis.

Sample	Lab ID	Dilution
N. Footer Conc.	14B0517-01	5X
Berm 5N-155E	14B0517-02	200X
Berm 5N-165E	14B0517-03	50X
Berm 5N-175E	14B0517-04	25X
Berm 5N-185E	14B0517-05	100X
Berm 5N-195E	14B0517-06	500X
Berm 5N-205E	14B0517-07	25X
Berm 10N-205E	14B0517-08	25X

F. The percent solids raw data was not included in the original package. The laboratory was able to supply the requested data. Data were not qualified on this basis.


Data Reviewer


Date

Field Duplicates

Calculated RPD for positive results only.

ND – Nondetected results, -- RPD not calculated.

14B0517-07	14B0517-08		
Sample ID	Duplicate ID	Parameter	RPD
Berm 5N-205E	Berm 10N-205E		
1.2 J	2 J	PCBs 1254	-13%
3.3	2.8	PCBs 1260	4%

Glossary of Data Qualifiers

U	Not Detected	The associated number indicates approximate sample concentration necessary to be detected.
UJ	Not Detected	Quantitation limit may be inaccurate or imprecise.
J	Analyte Present	Reported value is an estimated quantity.
N	Consider Present	Tentative identification. Special methods may be needed to confirm its presence or absence in future sampling efforts.
R	Unusable Result	Analyte may or may not be present in the sample.
UR	Unusable Result	Analyte may or may not be present in the sample.



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Technology Consultants

Annotated Form 1's
(Spreadsheet)

1 - FORM I

ANALYSIS DATA SHEET

64

N. Footer Conc.

Laboratory: Con-Test Analytical Laboratory SDG: 14B0517
 Client: WSP Project: 5140 Site - Yorkville, NY
 Matrix: Soil Laboratory ID: 14B0517-01 File ID: D0220056.D
 Sampled: 02/19/14 14:00 Prepared: 02/20/14 11:28 Analyzed: 02/20/14 23:44
 Solids: 90.60 Preparation: SW-846 3546 Dilution: 5
 Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.033	0.11	
11104-28-2	Aroclor-1221		0.11	0.11	
11141-16-5	Aroclor-1232		0.066	0.11	
53469-21-9	Aroclor-1242		0.055	0.11	
12672-29-6	Aroclor-1248		0.062	0.11	
11097-69-1	Aroclor-1254		0.046	0.11	
11096-82-5	Aroclor-1260 [2C]	0.45	0.051	0.11	
37324-23-5	Aroclor-1262		0.044	0.11	
11100-14-4	Aroclor-1268		0.064	0.11	

* Values outside of QC limits

1 - FORM I

ANALYSIS DATA SHEET

67

Berm 5N-155E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0517
 Client: WSP Project: 5140 Site - Yorkville, NY
 Matrix: Soil Laboratory ID: 14B0517-02 File ID: D0220075.D
 Sampled: 02/19/14 14:40 Prepared: 02/20/14 11:28 Analyzed: 02/21/14 16:02
 Solids: 75.30 Preparation: SW-846 3546 Dilution: 200
 Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		1.6	5.3	
11104-28-2	Aroclor-1221		5.2	5.3	
11141-16-5	Aroclor-1232		3.3	5.3	
53469-21-9	Aroclor-1242		2.7	5.3	
12672-29-6	Aroclor-1248		3.1	5.3	
11097-69-1	Aroclor-1254	9.1	2.3	5.3	
11096-82-5	Aroclor-1260	26	2.5	5.3	
37324-23-5	Aroclor-1262		2.2	5.3	
11100-14-4	Aroclor-1268		3.2	5.3	

* Values outside of QC limits

1 - FORM I ANALYSIS DATA SHEET

76

12

Berm 5N-165E

Laboratory:	Con-Test Analytical Laboratory	SDG:	14B0517
Client:	WSP	Project:	5140 Site - Yorkville, NY
Matrix:	Soil	Laboratory ID:	14B0517-03
		File ID:	D0220076.D
Sampled:	02/19/14 14:45	Prepared:	02/20/14 11:28
		Analyzed:	02/21/14 16:14
Solids:	76.40	Preparation:	SW-846 3546
		Dilution:	50
Batch:	B090653	Sequence:	S005890
		Calibration:	1400041
		Instrument:	ECD4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.40	1.3	
11104-28-2	Aroclor-1221		1.3	1.3	
11141-16-5	Aroclor-1232		0.80	1.3	
53469-21-9	Aroclor-1242		0.66	1.3	
12672-29-6	Aroclor-1248		0.75	1.3	
11097-69-1	Aroclor-1254 [2C]	2.9	0.56	1.3	
11096-82-5	Aroclor-1260	7.6	0.62	1.3	
37324-23-5	Aroclor-1262		0.53	1.3	
11100-14-4	Aroclor-1268		0.78	1.3	

* Values outside of QC limits

1 - FORM I ANALYSIS DATA SHEET

85

Berm 5N-175E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0517
 Client: WSP Project: 5140 Site - Yorkville, NY
 Matrix: Soil Laboratory ID: 14B0517-04 File ID: D0220077.D
 Sampled: 02/19/14 14:50 Prepared: 02/20/14 11:28 Analyzed: 02/21/14 16:27
 Solids: 73.80 Preparation: SW-846 3546 Dilution: 25
 Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.21	0.67	
11104-28-2	Aroclor-1221		0.66	0.67	
11141-16-5	Aroclor-1232		0.42	0.67	
53469-21-9	Aroclor-1242		0.34	0.67	
12672-29-6	Aroclor-1248	1.2	0.39	0.67	
11097-69-1	Aroclor-1254 [2C]	2.2 ^T	0.29	0.67	
11096-82-5	Aroclor-1260 [2C]	5.4	0.32	0.67	
37324-23-5	Aroclor-1262		0.28	0.67	
11100-14-4	Aroclor-1268		0.40	0.67	

* Values outside of QC limits

0.000000

1 - FORM I ANALYSIS DATA SHEET

98

14

Berm 5N-185E

Laboratory:	Con-Test Analytical Laboratory	SDG:	14B0517
Client:	WSP	Project:	5140 Site - Yorkville, NY
Matrix:	Soil	Laboratory ID:	14B0517-05
		File ID:	D0220078.D
Sampled:	02/19/14 14:55	Prepared:	02/20/14 11:28
		Analyzed:	02/21/14 16:40
Solids:	79.10	Preparation:	SW-846 3546
		Dilution:	100
Batch:	B090653	Sequence:	S005890
		Calibration:	1400041
		Instrument:	ECD4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.76	2.5	
11104-28-2	Aroclor-1221		2.4	2.5	
11141-16-5	Aroclor-1232		1.5	2.5	
53469-21-9	Aroclor-1242		1.3	2.5	
12672-29-6	Aroclor-1248		1.4	2.5	
11097-69-1	Aroclor-1254 [2C]	6.0	1.1	2.5	
11096-82-5	Aroclor-1260	16	1.2	2.5	
37324-23-5	Aroclor-1262		1.0	2.5	
11100-14-4	Aroclor-1268		1.5	2.5	

* Values outside of QC limits

1 - FORM I

ANALYSIS DATA SHEET

107

Berm 5N-195E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0517
 Client: WSP Project: 5140 Site - Yorkville, NY
 Matrix: Soil Laboratory ID: 14B0517-06 File ID: D0220079.D
 Sampled: 02/19/14 15:00 Prepared: 02/20/14 11:28 Analyzed: 02/21/14 16:53
 Solids: 80.90 Preparation: SW-846 3546 Dilution: 500
 Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		3.7	12	
11104-28-2	Aroclor-1221		12	12	
11141-16-5	Aroclor-1232		7.4	12	
53469-21-9	Aroclor-1242		6.1	12	
12672-29-6	Aroclor-1248		7.0	12	
11097-69-1	Aroclor-1254 [2C]	18	5.2	12	
11096-82-5	Aroclor-1260 [2C]	56	5.8	12	
37324-23-5	Aroclor-1262		4.9	12	
11100-14-4	Aroclor-1268		7.2	12	

* Values outside of QC limits

1 - FORM I

ANALYSIS DATA SHEET

116

Berm 5N-205E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0517
 Client: WSP Project: 5140 Site - Yorkville, NY
 Matrix: Soil Laboratory ID: 14B0517-07 File ID: D0220080.D
 Sampled: 02/19/14 15:05 Prepared: 02/20/14 11:28 Analyzed: 02/21/14 17:06
 Solids: 69.40 Preparation: SW-846 3546 Dilution: 25
 Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.22	0.72	
11104-28-2	Aroclor-1221		0.71	0.72	
11141-16-5	Aroclor-1232		0.45	0.72	
53469-21-9	Aroclor-1242		0.37	0.72	
12672-29-6	Aroclor-1248		0.42	0.72	
11097-69-1	Aroclor-1254 [2C]	1.2	0.31	0.72	
11096-82-5	Aroclor-1260	3.3	0.35	0.72	
37324-23-5	Aroclor-1262		0.30	0.72	
11100-14-4	Aroclor-1268		0.43	0.72	

* Values outside of QC limits

 14/02/14
 14/02/14

1 - FORM I

ANALYSIS DATA SHEET

125

Berm 10N-205E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0517
 Client: WSP Project: 5140 Site - Yorkville, NY
 Matrix: Soil Laboratory ID: 14B0517-08 File ID: D0220081.D
 Sampled: 02/19/14 15:10 Prepared: 02/20/14 11:28 Analyzed: 02/21/14 17:19
 Solids: 70.10 Preparation: SW-846 3546 Dilution: 25
 Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.22	0.70	
11104-28-2	Aroclor-1221		0.69	0.70	
11141-16-5	Aroclor-1232		0.43	0.70	
53469-21-9	Aroclor-1242		0.36	0.70	
12672-29-6	Aroclor-1248		0.41	0.70	
11097-69-1	Aroclor-1254	2.0 J	0.30	0.70	
11096-82-5	Aroclor-1260 [2C]	2.8	0.34	0.70	
37324-23-5	Aroclor-1262		0.29	0.70	
11100-14-4	Aroclor-1268		0.42	0.70	

* Values outside of QC limits

14B0517
02/21/14



ECT.CON INC.

Environmental and Computer
Technology Consultants

Support Documentation

Laboratory Case Narrative

February 24, 2014

Dave Bouchard
WSP
5 Sullivan Street
Cazenovia, NY 13035

Project Location: 5140 Commercial Dr, Yorville, NY
Client Job Number:
Project Number: E0032927.000/05
Laboratory Work Order Number: 14B0517

Enclosed are results of analyses for samples received by the laboratory on February 20, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Aaron L. Benoit
Project Manager

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

WSP

5 Sullivan Street

Cazenovia, NY 13035

ATTN: Dave Bouchard

REPORT DATE: 1/24/2014

PURCHASE ORDER NUMBER

PROJECT NUMBER: CON012927.000/05

ANALYTICAL SUMMARY

WORK ORDER NUMBER 14B0517

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

PROJECT LOCATION: 5140 Commercial Dr. Yorville, NY

FIELD SAMPLI. #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
N. Footer Conc.	14B0517-01	Soil		SM 2540C SW-846 1030 SW-846 1111 SW-846 6010C SW-846 7470A SW-846 8081B SW-846 8082A SW-846 9151A SW-846 8260C SW-846 8270D SW-846 9045C	
Berm SN-1551	14B0517-02	Soil		SM 2540C SW-846 8082A	
Berm SN-163E	14B0517-03	Soil		SM 2540C SW-846 8082A	
Berm SN-1751	14B0517-04	Soil		SM 2540C SW-846 8082A	
Berm SN-185E	14B0517-05	Soil		SM 2540C SW-846 8082A	
Berm SN-195E	14B0517-06	Soil		SM 2540C SW-846 8082A	
Berm SN-2051	14B0517-07	Soil		SM 2540C SW-846 8082A	
Berm SN-205F	14B0517-08	Soil		SM 2540C SW-846 8082A	

CASE NARRATIVE SUMMARY

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

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

SW-846 B082A

Qualifications:

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample

Analyte & Sample(s) Qualified:

Aroclor-1016, Aroclor-1016 [2C], Aroclor-1260, Aroclor-1260 [2C]
B090653-MS1, B090653-MSD1

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Sample(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]
14B0517-02[Benn SN- 55E], 14B0517-03[Benn SN-165E], 14B0517-05[Benn SN-185E], 14B0517-06[Benn SN-195E]

SW-846 B151A

Qualifications:

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Sample(s) Qualified:

2,4,5-TP (Silvex), 2,4,5-TP (Silvex) [2C], 2,4-D
B090683-BS , B090683-MS1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Sample(s) Qualified:

2,4,5-TP (Silvex), 2,4,5-TP (Silvex) [2C]
14B0517-01[N. Foster Conc.]

SW-846 B260C

Qualifications:

Matrix spike recovery is outside of control limits. Data validation is not affected since sample result is "not detected" and recovery bias is on the high side for this compound.

Analyte & Sample(s) Qualified:

1,1-Dichloroethylene, Trichloroethylene
B090687-MS1

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Sample(s) Qualified:

2-Butanone (MEK)
14B0517-01[N. Foster Conc.], B090687-BLK1, B090687-BS1, B090687-BSD1, B090687-MS1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Sample(s) Qualified:

2-Butanone (MEK)
B090687-BS1, B090687-BSD1, B090687-MS1

SW-846 B270D

Qualifications:

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

One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

Analyte & Sample(s) Qualified:

2,4,6-Triphenylphenol

14B0517-01[N. Foster Conc.] B090691-MS1

SW-846 9045C

Qualifications:

Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time

Analyte & Sample(s) Qualified:

pH

14B0517-01[N. Foster Conc.]

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

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



Daren J. Dainboragran
Laboratory Manager

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits
+	Wide recovery limits established for difficult compound
‡	Wide RPD limits established for difficult compound
u	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section
11-01	Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time
MS-14	Matrix spike recovery is outside of control limits. Data validation is not affected since sample result is "not detected" and recovery bias is on the high side for this compound.
MS-21	Matrix spike and/or spike duplicate recovery bias High due to contribution of other Analytes present in the source sample
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Chain of Custody



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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

14B0517
Rev 04.05.12

Company Name: WSP USA

Telephone: 315-655-3900

Address: 5 SUMMIT ST.

Project # 60032927.000/05

Attention: DAVE BOUCHARD

Client PO#

Project Location: 500 Commercial Drive, Westfield, MA

DATA DELIVERY (check all that apply)
☐ FAX ☐ EMAIL ☐ WEBSITE

Sampled By: Kevin Sullivan

Email: Dave.Bouchard@wsp.com

Project Proposal Provided? (for billing purposes)
Yes ☒ No ☐ Date: 4/5/14

Format: ☒ PDF ☐ EXCEL ☐ OGIS

Project Proposal Provided? (for billing purposes)
Yes ☒ No ☐ Date: 4/5/14

Format: ☒ PDF ☐ EXCEL ☐ OGIS

Project Proposal Provided? (for billing purposes)
Yes ☒ No ☐ Date: 4/5/14

Format: ☒ PDF ☐ EXCEL ☐ OGIS

Con-Test Lab ID (Laboratory use only)	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Collection	Matrix	Matrix Data
01	N. FOOTER CONC.	2/19/14	1400	Composite	X	S L
02	BERM SN-155E	2/19/14	1440	Composite	X	S L
03	BERM SN-165E	2/19/14	1445	Composite	X	S L
04	BERM SN-175E	2/19/14	1450	Composite	X	S L
05	BERM SN-185E	2/19/14	1455	Composite	X	S L
06	BERM SN-195E	2/19/14	1500	Composite	X	S L
07	BERM SN-205E	2/19/14	1505	Composite	X	S L
08	BERM SN-205E	2/19/14	1510	Composite	X	S L

Con-Test Lab ID (Laboratory use only)	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Collection	Matrix	Matrix Data
01	N. FOOTER CONC.	2/19/14	1400	Composite	X	S L
02	BERM SN-155E	2/19/14	1440	Composite	X	S L
03	BERM SN-165E	2/19/14	1445	Composite	X	S L
04	BERM SN-175E	2/19/14	1450	Composite	X	S L
05	BERM SN-185E	2/19/14	1455	Composite	X	S L
06	BERM SN-195E	2/19/14	1500	Composite	X	S L
07	BERM SN-205E	2/19/14	1505	Composite	X	S L
08	BERM SN-205E	2/19/14	1510	Composite	X	S L

Comments: RUSH ALL SAMPLES - UNDERSTAND THAT TSP

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

RUSH IS 48 hr. Report PCB TO 0.1 mg/kg

H = High M = Medium L = Low C = Clean U = Unknown

Relinquished by: (signature)	Date/Time	Turnaround #	Detection Limit Requirements
Relinquished by: (signature)	2/19/14 1600	7-Day	Mass each sample
Relinquished by: (signature)	2/20/14 9:30	10-Day	
Relinquished by: (signature)	2/20/14 9:30	Other	
Relinquished by: (signature)	2/20/14 9:30	Other	
Relinquished by: (signature)	2/20/14 9:30	Other	

Relinquished by: (signature)	Date/Time	Turnaround #	Detection Limit Requirements
Relinquished by: (signature)	2/19/14 1600	7-Day	Mass each sample
Relinquished by: (signature)	2/20/14 9:30	10-Day	
Relinquished by: (signature)	2/20/14 9:30	Other	
Relinquished by: (signature)	2/20/14 9:30	Other	
Relinquished by: (signature)	2/20/14 9:30	Other	

Relinquished by: (signature)	Date/Time	Turnaround #	Detection Limit Requirements
Relinquished by: (signature)	2/19/14 1600	7-Day	Mass each sample
Relinquished by: (signature)	2/20/14 9:30	10-Day	
Relinquished by: (signature)	2/20/14 9:30	Other	
Relinquished by: (signature)	2/20/14 9:30	Other	
Relinquished by: (signature)	2/20/14 9:30	Other	

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

NEELAC & AIHA-LAP, LLC
Accredited
WBE/DBE Certified



803791119223

Ship (PAC) date
Wed 2/19/2014 4:45 pm
CAE LN



Delivered
Special services: None

Actual delivery
Thur 2/20/2014 9:30 am
WIL US

Travel History

Date/Time	Activity	Location
- 2/20/2014 - Thursday		
9:30 am	Delivered	US
8:47 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:11 am	At local FedEx facility	WINDSOR LOCKS, CT
12:58 am	Departed FedEx location	WINDSOR, NY
- 2/19/2014 - Wednesday		
11:07 pm	Arrived at FedEx location	WINDSOR, NY
7:25 pm	Left FedEx origin facility	CRISFORD, NY
1:45 pm	Picked up	CRISFORD, NY
		Local Scan Time 31

Shipment Facts

Tracking number	803791119223	Service	FedEx Priority Overnight
Weight	32 lbs	Delivered To	Receptionist/Front Desk
Total pieces	1	Total shipment weight	32 lbs / 14.5 kg
Shipper reference	L 0032527005105	Packaging	Yvrn Packaging
Special handling section	Deliver Workday		

39 Spruce St.
East Longmeadow, MA. 01029
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Page 1 of 2

Sample Receipt Checklist

CLIENT NAME: WSP RECEIVED BY: RB DATE: 2-20-14

- 1) Was the chain(s) of custody relinquished and signed? ☒ Yes ☐ No No CoC Included
2) Does the chain agree with the samples? ☒ Yes ☐ No
If not, explain:
3) Are all the samples in good condition? ☒ Yes ☐ No
If not, explain:

4) How were the samples received:

On Ice ☐ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? ☒ Yes ☐ No N/A

Temperature °C by Temp blank 20 Temperature °C by Temp gun _____

- 5) Are there Dissolved samples for the lab to filter? Yes ☐ No ☒

Who was notified _____ Date _____ Time _____

- 6) Are there any RUSH or SHORT HOLDING TIME samples? ☒ Yes ☐ No

Who was notified _____ Date _____ Time _____

- 7) Location where samples are stored:

Log In

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

- 8) Do all samples have the proper Acid pH: Yes No ☒ N/A

- 9) Do all samples have the proper Base pH: Yes No ☒ N/A

- 10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No ☒ N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	10
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	1
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SDC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Time and Date Frozen:

Dpc# 277 # Bisulfate _____ # DI Water _____

Rev: 4 August 2013 # Thiosulfate _____ Unpreserved _____

Page 2 of 2
Login Sample Receipt Checklist
(Rejection Criteria Listing - Using Sample Acceptance Policy)
Any False statement will be brought to the attention of Client

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Doc #277 Rev. 4 August 2013

Who notified of False statements?
 Log-In Technician Initials: PB

Date/Time:

Date/Time: 2-20-14

9:38

Worksheets

PERCENT SOLIDS

Preservative - Cool < 4C
Hold Time - 7 days

Sample Date	Sample ID	Laboratory ID	Matrix	Preservative	Days to Analysis	Date Analyzed	Dish Wgt	Sample Mass Wet	Sample Mass Dry	Calcd %S	Rptd %S
1 02/19/14	N. Footer Conc.	14B0517-01	Solid	Cool <4C	1	2/20/14	1.021	11.914	10.885	90.6	90.6
2 02/19/14	Berm 5N-15SE	14B0517-02	Solid	Cool <4C	1	2/20/14	1.017	9.762	7.603	75.3	75.3
3 02/19/14	Berm 5N-16ST	14B0517-03	Solid	Cool <4C	1	2/20/14	1.031	9.119	7.214	76.4	76.4
4 02/19/14	Berm 5N-17SE	14B0517-04	Solid	Cool <4C	1	2/20/14	1.025	11.691	8.893	73.8	73.8
5 02/19/14	Berm 5N-18SE	14B0517-05	Solid	Cool <4C	1	2/20/14	1.021	13.513	10.904	79.1	79.1
6 02/19/14	Berm 5N-19SE	14B0517-06	Solid	Cool <4C	1	2/20/14	1.037	14.253	11.724	80.9	80.9
7 02/19/14	Berm 5N-20SE	14B0517-07	Solid	Cool <4C	1	2/20/14	1.041	13.695	9.825	69.4	69.4
8 02/19/14	Berm 10N-20ST	14B0517-08	Solid	Cool <4C	1	2/20/14	1.039	16.754	12.063	70.1	70.1

N. Footer Conc.

Sample 90.6
Dup 91.1
RPD -0.006
RPD Rptd
RPD $\frac{(1.0CS+1.0D) \times ((LCS+L.CSD) \times 2)}{2} \times 100$

CON-TEST LABORATORY

PERCENT SOLIDS

analyst	TEMP IN: 104 °C		dish		dish & sample		time	date	sample		dried dish & sample		time	date	dried sample		% solid
	sample#																
	B090653																
MXG	14B0517-01		1.021	g	11.914	g	11:55	02/20/2014	10.8930		10.885	g	16:27	02/20/2014	9.8640		90.6
MXG	14B0517-02		1.017	g	9.762	g	11:56	02/20/2014	8.7450		7.603	g	16:27	02/20/2014	6.5860		75.3
MXG	14B0517-03		1.031	g	9.119	g	11:57	02/20/2014	8.0880		7.214	g	16:27	02/20/2014	6.1830		76.4
MXG	14B0517-04		1.025	g	11.691	g	11:58	02/20/2014	10.6660		8.893	g	16:27	02/20/2014	7.8680		73.8
MXG	14B0517-05		1.021	g	13.513	g	11:59	02/20/2014	12.4920		10.904	g	16:27	02/20/2014	9.8830		79.1
MXG	14B0517-06		1.037	g	14.253	g	12:00	02/20/2014	13.2160		11.724	g	16:28	02/20/2014	10.6870		80.9
MXG	14B0517-07		1.041	g	13.695	g	12:01	02/20/2014	12.6540		9.825	g	16:28	02/20/2014	8.7840		69.4
MXG	14B0517-08		1.039	g	16.754	g	12:02	02/20/2014	15.7150		12.063	g	16:28	02/20/2014	11.0240		70.1
MXG	DUPI 14B0517-01		1.024	g	12.600	g	12:03	02/20/2014	11.5760		11.569	g	16:28	02/20/2014	10.5450		91.1

Peak 1	46.616	45.571
Peak 4	47.632	45.814
Peak 5	48.445	45.152
Avg Area 1260	45.472	45.9416
Rpt Area 1260	45.5	45.9
Exptd Area 1260	50	50
Rpd %D	9.1	8.1
Calc %D	9.1%	8.1%

$$\% \text{Difference (or \%Drift)} = (\text{RICAL} - \text{CCVICAL}) * 100$$

Surrogate Calculation Check Lab limits used for validation unless otherwise noted
N/G 10-150%

SAMPLE N-Isomer Conc.

	SURR	AMOUNT FOUND	AMOUNT SPIKED	%R	FORM 2
	TCX 1	29.294	40	73.5	76.5
	TCX 2	32.9	40	82.3	82.3
	DCB 1	31.781	40	79.5	79.5
	DCB 2	31.572	40	79.7	79.7

Quantitation Calculation Check

Sample Lab ID Compound Final Result mg/Kg Instrument				Berm SN-165F 14B0517-03 PCB 1260 FCD 4				Sample Lab ID Compound Final Result mg/Kg Instrument				Berm SN-155H 14B0517-02 PCB 1254 FCD 4			
Column	Col 1			Column	Col 1			Column	Col 1			Column	Col 2		
Peak 1	0.00E+00	0.0000	79362.51	116.7606	Peak 1	24337562	36.9524	23593995	51.1022	Peak 1	24337562	36.9524	23593995	51.1022	
CF	1.43E+06		6.80E+01		CF	6.51E+05		4.70E+05		CF	6.51E+05		4.70E+05		
Peak 2	0.00E+00	0.0000	0	0.0000	Peak 2	36581639	36.4039	22953676	47.1788	Peak 2	36581639	36.4039	22953676	47.1788	
CF	1.59E+06		8.49E+05		CF	1.76E+06		5.44E+05		CF	1.76E+06		5.44E+05		
Peak 3	9.42E+07	108.5210	70615450	107.6348	Peak 3	30565282	35.7730	22546040	27.7467	Peak 3	30565282	35.7730	22546040	27.7467	
CF	9.05E+05		6.56E+05		CF	8.56E+05		8.15E+05		CF	8.56E+05		8.15E+05		
Peak 4	1.17E+04	114.3275	9518617	120.7763	Peak 4	0	0.0000	0	0.0000	Peak 4	0	0.0000	0	0.0000	
CF	1.05E+06		7.77E+05		CF	9.15E+05		4.24E+05		CF	9.15E+05		4.24E+05		
Peak 5	2.73E+05	177.4618	0.00E+00	0.0000	Peak 5	0	0.0000	0	0.0000	Peak 5	0	0.0000	0	0.0000	
CF	2.14E+06		1.67E+06		CF	1.34E+06		9.37E+05		CF	1.34E+06		9.37E+05		
Avg Conc ug/L		116.7708	Avg Conc ug/L	115.0752	Avg Conc ug/L		34.3631	Avg Conc ug/L	40.3475	Avg Conc ug/L		34.3631	Avg Conc ug/L	40.3475	
Extract Vol g		10.160	Extract Vol g	10.160	Extract Vol g		10.000	Extract Vol g	10.000	Extract Vol g		10.000	Extract Vol g	10.000	
Final Vol mL		10	Final Vol mL	10	Final Vol mL		10	Final Vol mL	10	Final Vol mL		10	Final Vol mL	10	
DF		50	DF	50	DF		50	DF	50	DF		50	DF	50	
Conversion		0.001	Conversion	0.001	Conversion		0.001	Conversion	0.001	Conversion		0.001	Conversion	0.001	
%Solids		0.764	%Solids	0.764	%Solids		0.764	%Solids	0.753	%Solids		0.753	%Solids	0.753	
Final Conc mg/Kg		7.566	Final Conc mg/Kg	7.457	Final Conc mg/Kg		6.127	Final Conc mg/Kg	0.715	Final Conc mg/Kg		6.127	Final Conc mg/Kg	0.715	

Sample Lab ID Compound Final Result mg/kg Instrument		Berm SN-175H 14B0517 PCB 1248 FCD 4		
Column	Col 1	Column	Col 2	
Peak 1	0	0.0000	0	
CF	1.91E+05	7.46E+05	0.0000	
Peak 2	25686648	37.8076	9472649	
CF	6.77E+05	7.97E+05	31.8857	
Peak 3	15823389	35.6739	10071706	
CF	4.70E+05	3.97E+05	27.2794	
Peak 4	14920617	26.9520	12639948	
CF	6.53E+05	4.38E+05	31.1413	
Peak 5	11171618	47.4390	0	
CF	6.57E+05	5.18E+05	0.0000	
Avg Conc mg/L		37.2161	Avg Conc mg/L	30.0015
Extract Vol g		10.160	Extract Vol g	10.160
Final Vol mL		10	Final Vol mL	10
DF		25	DF	25
Conversion		0.001	Conversion	0.001
%Solids		0.718	%Solids	0.718
Final Conc mg/kg		1.248	Final Conc mg/kg	1.080

Compound	Col 1	Col 2	%D Found	%D Calcd
Berm SN 165E PCB 1260	7.566	7.4565	0.9	1.5%
Berm SN 155E PCB 1254	9.127	10.2154	18.6	14.8%
Berm SN 175E PCB 1248	1.248	1.0946	22.2	23.6%

2 - FORM II

SYSTEM MONITORING COMPOUND SUMMARY

SW-846 8082A

135

30

Laboratory: Con-Test Analytical Laboratory SDG: 14B0517
 Client: WSP Project: 5140 Site - Yorkville, NY
 Matrix: Soil Instrument: ECD4

	DOB 1 (30% - 150%)	DOB 2 (30% - 150%)	TCX 1 (30% - 150%)	TCX 2 (30% - 150%)
14B0517-01	79.5	79.7	74.5	82.3
14B0517-02	.	.	.	. <i>2:00 X</i>
14B0517-03	.	.	.	. <i>5:00 X</i>
14B0517-04	93.5	89.0	82.3	89.2
14B0517-05	.	.	.	. <i>1:00 X</i>
14B0517-06	.	.	.	. <i>5:00 X</i>
14B0517-07	86.9	87.8	80.0	87.7
14B0517-08	77.8	80.7	76.8	81.5
B090653-BLK1	94.4	94.8	83.0	89.7
B090653-BB1	84.6	84.4	73.4	80.1
B090653-BSD1	84.7	85.0	80.0	87.5
B090653-MS1	61.9	101	70.6	79.5
B090653-MSD1	65.9	112	73.8	83.4

Data Path : C:\msdchem\1\DATA\022014\
 Data File : D0220056.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Feb 2014 11:44 pm
 Operator : JMB
 Sample : 14B0517-0105X Inst : ECD 4
 Misc :
 ALS Vial : 56 Sample Multiplier: 1

Integration File signal 1: FRONT-1260.E
 Integration File signal 2: 1260-BACK.E
 Quant Time: Feb 21 07:54:01 2014
 Quant Method : C:\msdchem\1\METHODS\pcb methods\4-1260 021014.M
 DataAcq Meth: PCB01.M
 Quant Title : 1260/1016 02/03/14 12/05/13
 QLast Update : Mon Feb 03 15:03:28 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.177	2.656	541.5E6	373.2E6	29.794	32.900
Spiked Amount	20.000 Range	60 - 300	Recovery	= 148.97%	164.50%	
2) S Decachlor...	6.233	6.985	641.0E6	504.7E6	31.781	31.872
Spiked Amount	20.000 Range	60 - 300	Recovery	= 158.90%	159.36%	
Target Compounds						
3) L1 1016 {1}	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016 {2}	0.000	3.669	0	1555060	N.D.	2.782 #
5) L1 1016 {3}	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016 {4}	0.000	0.000	0	0	N.D.	N.D.
7) L1 1016 {5}	0.000	0.000	0	0	N.D.	N.D.
Sum 1016			0	1555060	N.D.	2.782
Average 1016					0.000	2.782
8) L7 1260 {1}	4.446	5.126	134.2E6	58015051	93.589	85.360
9) L7 1260 {2}	4.656	5.283	154.3E6	76278463	97.293	89.886
10) L7 1260 {3}	4.746	5.647	65700623	49715102	72.609	75.818
11) L7 1260 {4}	4.934	5.886	73468369	61412989	71.636	79.594
12) L7 1260 {5}	5.180	6.073	167.8E6	148.7E6	78.376	88.212
Sum 1260			595.5E6	394.1E6	413.503	418.870
Average 1260					82.701	83.774

(E)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

CHECKED BY:
 PETER GRAYSON/2 FEB 21 2014

Data Path : C:\msdchem\1\DATA\022014\
 Data File : D0220075.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2014 4:02 pm
 Operator : JMB
 Sample : 14B0517-02@200X Inst : ECD 4
 Misc :
 ALS Vial : 75 Sample Multiplier: 1

Integration File signal 1: 1254-F.E
 Integration File signal 2: 1254-B.E
 Quant Time: Feb 24 08:24:35 2014
 Quant Method : C:\msdchem\1\METHODS\pcb methods\4-1254-021014.M
 DataAcq Meth:PCB01.M
 Quant Title : 1254 02/03/13 09/17/13
 QLast Update : Mon Feb 10 20:04:08 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.176	2.655	17716683	11498755	0.975	1.014
Spiked Amount	200.000	Range	60 - 300	Recovery	0.49%#	0.51%#
2) S Decachlor...	6.234	6.986	25135646	27966450	1.246	1.766 #
Spiked Amount	200.000	Range	60 - 300	Recovery	0.62%#	0.88%#
Target Compounds						
3) L6 1254{1}	3.629	4.450	24037562	23993905	36.954	51.109 #
4) L6 1254{2}	4.101	4.595	36581939	22953676	30.403	42.180 #
5) L6 1254{3}	4.309	4.961	30565282	22546940	35.726	27.746
6) L6 1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L6 1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254			91184783	69494520	103.083	121.034
Average 1254					34.361	40.345

CHECKED BY:
 TARRISA CAGAN

FEB 24 2014

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

54/cew

Data Path : C:\msdchem\1\DATA\022014\
 Data File : D0220076.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2014 4:14 pm
 Operator : JMB
 Sample : 1480517-03@50X Inst : ECD 4
 Misc :
 ALS Vial : 76 Sample Multiplier: 1

Integration File signal 1: FRONT-1260.E
 Integration File signal 2: 1260-BACK.E
 Quant Time: Feb 24 08:45:14 2014
 Quant Method : C:\msdchem\1\METHODS\pcb methods\4-1260-021014.M
 DataAcq Meth:PCB01.M
 Quant Title : 1260/1016 02/03/14 12/05/13
 QLast Update : Mon Feb 10 19:59:07 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) S Tetrachlo...	2.177	2.656	54241900	36007002	2.984	3.174
Spiked Amount	20.000 Range	60 - 300	Recovery	=	14.92%#	15.87%#
2) S Decachlor...	6.234	6.985	66067946	57673552	3.276	3.642
Spiked Amount	20.000 Range	60 - 300	Recovery	=	16.38%#	18.21%#
Target Compounds						
3) L1 1016 {1}	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016 {2}	2.999	3.669	6716798	5243054	7.562	9.380
5) L1 1016 {3}	3.101	0.000	1771509	0	2.848	N.D. #
6) L1 1016 {4}	3.128	0.000	1762657	0	4.491	N.D. #
7) L1 1016 {5}	3.364	4.123	10488062	4585573	21.955	15.743 #
Sum 1016			20739026	9828628	36.876	25.124
Average 1016					9.219	12.562
8) L7 1260 {1}	0.000	5.116	0	79362153	N.D. d	116.769 #
9) L7 1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7 1260 {3}	4.746	5.646	98211514	70615450	108.538	107.692
11) L7 1260 {4}	4.935	5.885	117.3E6	93186337	114.347	120.774
12) L7 1260 {5}	5.179	0.000	272.9E6	0	127.500	N.D. d#
Sum 1260			488.4E6	243.2E6	350.385	345.235
Average 1260					116.795	115.078

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : C:\msdchem\1\DATA\022014\
 Data File : D0220077.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2014 4:27 pm
 Operator : JMB
 Sample : 14B0517-D4@25X Inst : ECD 4
 Misc :
 ALS Vial : 77 Sample Multiplier: 1

Integration File signal 1: 1248-F.E
 Integration File signal 2: 1248-back.E
 Quant Time: Feb 24 08:48:40 2014
 Quant Method : C:\msdchem\1\METHODS\pcb methods\4-1248-021014.M
 DataAcq Meth:PCB01.M
 Quant Title : 1248 02/03/14 08/29/13
 QLast Update : Mon Feb 10 20:06:10 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) S Tetrachlo...	2.176	2.656	119.7E6	80922065	6.587	7.133
Spiked Amount	200.000	Range	60 - 300	Recovery =	3.29%#	3.57%#
2) S Decachlor...	6.233	6.985	150.9E6	112.7E6	7.480	7.117
Spiked Amount	200.000	Range	60 - 300	Recovery =	3.74%#	3.56%#
Target Compounds						
3) L5 1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L5 1248{2}	3.364	3.919	23686448	9472649	37.810	31.883
5) L5 1248{3}	3.422	4.125	15823389	10671706	33.670	27.277
6) L5 1248{4}	3.660	4.416	19570637	13639908	29.952	31.144
7) L5 1248{5}	3.677	0.000	31171618	0	47.429	N.D. d#
Sum 1248			90252091	33784263	148.862	90.305
Average 1248					37.216	30.102

{F}=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

CHECKED BY:
 MARISA CAGAW

FEB 24 2014

48/54/60

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

N. Footer Conc. 264

41

Lab Sample ID: 14B0517-01

Date(s) Analyzed: 02/20/2014 02/20/2014

Instrument ID (1): ECD4

Instrument ID (2): ECD4

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.44	
	2	0.00	0.00	0.00	0.45	1.6

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Bern 5N-155E 265

42

Lab Sample ID: 14B0517-02

Date(s) Analyzed: 02/21/2014 02/21/2014

Instrument ID (1): ECD4

Instrument ID (2): ECD4

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	9.1	
	2	0.00	0.00	0.00	11	18.6
Aroclor-1260	1	0.00	0.00	0.00	26	
	2	0.00	0.00	0.00	26	0.8

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Berm 5N-165E 266

Lab Sample ID: 14B0517-03

Date(s) Analyzed: 02/21/2014 02/21/2014

Instrument ID (1): ECD4

Instrument ID (2): ECD4

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	2.5	
	2	0.00	0.00	0.00	2.9	16.4
Aroclor-1260	1	0.00	0.00	0.00	7.6	
	2	0.00	0.00	0.00	7.5	0.9

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Born 5N-175E 267

114

Lab Sample ID: 14B0517-04

Date(s) Analyzed: 02/21/2014 02/21/2014

Instrument ID (1): ECD4

Instrument ID (2): ECD4

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	1.2	
	2	0.00	0.00	0.00	1.0	22.2
Aroclor-1254	1	0.00	0.00	0.00	1.8	
	2	0.00	0.00	0.00	2.2	17.8
Aroclor-1260	1	0.00	0.00	0.00	5.3	
	2	0.00	0.00	0.00	5.4	0.9

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Bern 5N-185E

268

Lab Sample ID: 14B0517-05

Date(s) Analyzed: 02/21/2014 02/21/2014

Instrument ID (1): ECD4

Instrument ID (2): ECD4

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	5.7	
	2	0.00	0.00	0.00	6.0	5.0
Aroclor-1260	1	0.00	0.00	0.00	15	
	2	0.00	0.00	0.00	15	0.6

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Born 5N-195E 269

46

Lab Sample ID: 1460517-06

Date(s) Analyzed 02/21/2014 02/21/2014

Instrument ID (1): ECD4

Instrument ID (2): ECD4

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	16	
	2	0.00	0.00	0.00	18	8.7
Aroclor-1260	1	0.00	0.00	0.00	53	
	2	0.00	0.00	0.00	56	4.8

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Berm 5N-205E 270

Lab Sample ID: 14B0517-07

Date(s) Analyzed: 02/21/2014 02/21/2014

Instrument ID (1): ECD4

Instrument ID (2): ECD4

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	1.1	
	2	0.00	0.00	0.00	1.2	6.0
Aroclor-1260	1	0.00	0.00	0.00	3.3	
	2	0.00	0.00	0.00	3.2	2.5

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Bern 10N-205E 271

Lab Sample ID: 14B0517-08

Date(s) Analyzed 02/21/2014 02/21/2014

Instrument ID (1): ECD4

Instrument ID (2): ECD4

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	2.0	
	2	0.00	0.00	0.00	1.9	3.6
Aroclor-1260	1	0.00	0.00	0.00	2.6	
	2	0.00	0.00	0.00	2.8	6.3

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Berm 5N-155E

Laboratory: Con-Test Analytical Laboratory
 Client: WSP
 Matrix: Soil
 Batch: B090653
 % Solids: 75.30
 Initial/Final: 10.2 g / 10 mL
 Column: 1

Work Order: 14B0517
 Project: 5140 Site - Yorkville, NY
 Analysis: SW-846 8082A
 Preparation: SW-846 3546
 Laboratory ID: B090653-MS1
 Sample Lab ID: 14B0517-02

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016	0.260	ND	1.4	542	40 - 140
Aroclor-1260	0.260	26	26	-182	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	REC.
Aroclor-1016	0.255	1.6	621		30	40 - 140
Aroclor-1260	0.255	31	1730	17.4	30	40 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Berm 5N-155E

Laboratory: Con-Test Analytical Laboratory
 Client: WSP
 Matrix: Soil
 Batch: B090653
 % Solids: 75.30
 Initial/Final: 10.2 g / 10 mL
 Column: 2

Work Order: 14B0517
 Project: 5140 Site - Yorkville, NY
 Analysis: SW-846 8082A
 Preparation: SW-846 3546
 Laboratory ID: B090653-MS1
 Sample Lab ID: 14B0517-02

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	0.260	ND	1.4	546	40 - 140
Aroclor-1260 [2C]	0.260	26	25	349	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	REC.
Aroclor-1016 [2C]	0.255	1.6	621	*	30	40 - 140
Aroclor-1260 [2C]	0.255	28	810	*	11.3	30

**1 - FORM I
ANALYSIS DATA SHEET****Matrix Spike**

Laboratory: Con-Test Analytical Laboratory Work Order 14B0517
Client: WSP Project: 5140 Site - Yorkville, NY
Matrix: Soil Laboratory ID: B090653-MS1 File ID: D0220064.D
Sampled: Prepared: 02/20/14 11:28 Analyzed: 02/21/14 01:27
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	1.4	0.040	0.13	MS-21
11096-82-5	Aroclor-1260	26	0.062	0.13	MS-21

1 - FORM I

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Con-Test Analytical Laboratory
 Client: WSP
 Matrix: Soil
 Sampled: Prepared: 02/20/14 11:28
 Solids: Preparation: SW-846 3546
 Batch: B090653 Sequence S005890 Calibration: 1400041 Instrument: ECD4
 Column: 2

Work Order: 14B0517
 Project: 5140 Site - Yorkville, NY
 File ID: D0220064.D
 Analyzed: 02/21/14 01:27
 Dilution:

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	1.4	0.040	0.13	MS-21
11096-82-5	Aroclor-1260 [2C]	25	0.062	0.13	MS-21

Data Path : C:\msdchem\1\DATA\022014\
 Data File : D0220064.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2014 1:27 am
 Operator : JMH
 Sample : B090653-MS105X Inst : ECD 4
 Misc :
 ALS Vial : 64 Sample Multiplier: 1

Integration File signal 1: FRONT-1260.E
 Integration File signal 2: 1260-BACK.E
 Quant Time: Feb 21 07:54:57 2014
 Quant Method : C:\msdchem\1\METHODS\pcb methods\4-1260-021014.M
 DataAcq Meth:PCB01.M
 Quant Title : 1260/1016 02/03/14 12/05/13
 Qlast Update : Mon Feb 03 15:03:28 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) S Tetrachlo...	2.177	2.656	513.1E6	360.8E6	28.229	31.807
Spiked Amount	20.000 Range	60 - 300	Recovery	=	141.14%	159.04%
2) S Decachlor...	6.233	6.985	499.2E6	637.3E6	24.752	40.243 #
Spiked Amount	20.000 Range	60 - 300	Recovery	=	123.76%	201.22%
Target Compounds						
3) L1 1016 {1}	2.689	3.510	47153266	14966815	68.173	83.553
4) L1 1016 {2}	2.999	3.669	231.5E6	165.1E6	261.308	295.341
5) L1 1016 {3}	3.086	3.768	36629917	38317262	58.890	101.247 #
6) L1 1016 {4}	3.127	3.847	41617153	28319517	106.038	134.066 #
7) L1 1016 {5}	3.364	4.125	281.9E6	139.1E6	590.174	477.561
Sum 1016			638.8E6	385.8E6	1084.583	1091.768
Average 1016					216.917	218.354
8) L7 1260 {1}	4.446	5.116	6111.8E6	2530.1E6	4260.782	3722.673
9) L7 1260 {2}	4.655	5.283	7677.8E6	3205.5E6	4841.000	3777.297
10) L7 1260 {3}	4.746	5.647	2871.0E6	2113.2E6	3172.927	3222.730
11) L7 1260 {4}	4.933	5.886	3531.6E6	2516.2E6	3443.485	3261.165
12) L7 1260 {5}	5.178	6.073	8632.3E6	8523.6E6	4032.385	5056.390 #
Sum 1260			28824.5E6	18888.6E6	19750.579	19040.255
Average 1260					3950.116	3808.051

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

200X

1 - FORM I ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0517
 Client: WSP Project: 5140 Site - Yorkville, NY
 Matrix: Soil Laboratory ID: B090653-MSD1 File ID: D0220065.D
 Sampled: Prepared: 02/20/14 11:28 Analyzed: 02/21/14 01:40
 Solids: Preparation: SW-846 3546 Dilution:
 Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4
 Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	1.6	0.040	0.13	MS-21
11096-82-5	Aroclor-1260	31	0.061	0.13	MS-21

1 - FORM I

ANALYSIS DATA SHEET

319

55

Matrix Spike Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0517
 Client: WSP Project: 5140 Site - Yorkville, NY
 Matrix: Soil Laboratory ID: B090653-MSD1 File ID: D022D065.D
 Sampled: Prepared: 02/20/14 11:28 Analyzed: 02/21/14 01:40
 Solids: Preparation: SW-846 3546 Dilution:
 Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4
 Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	1.6	0.040	0.13	MS-21
11096-82-5	Aroclor-1260 [2C]	28	0.061	0.13	MS-21

3 - FORM III

138

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0517
Client:	WSP	Project:	5140 Site - Yorkville, NY
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B090653	Laboratory ID:	B090653-BS1
Column:	1	Initial/Final:	10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	0.200	0.14	70.6	40 - 140
Aroclor-1260	0.200	0.16	77.8	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	QC LIMITS		
				% RPD #	RPD	REC.
Aroclor-1016	0.200	0.15	77.5	9.25	30	40 - 140
Aroclor-1260	0.200	0.16	82.3	5.56	30	40 - 140

3 - FORM III

139

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0517
Client:	WSP	Project:	5140 Site - Yorkville, NY
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B090653	Laboratory ID:	B090653-BS1
Column:	2	Initial/Final:	10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	0.200	0.17	83.2	40 - 140
Aroclor-1260 [2C]	0.200	0.15	77.0	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	RPD	QC LIMITS REC.
Aroclor-1016 [2C]	0.200	0.18	88.1	5.72	30	40 - 140
Aroclor-1260 [2C]	0.200	0.16	82.0	6.33	30	40 - 140

1 - FORM I
ANALYSIS DATA SHEET
LCS

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0517
Client: WSP Project: 5140 Site - Yorkville, NY
Matrix: Soil Laboratory ID: B090653-BS1 File ID: D0220054.D
Sampled: Prepared: 02/20/14 11:28 Analyzed: 02/20/14 23:18
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.14	0.031	0.10	
11096-82-5	Aroclor-1260	0.16	0.048	0.10	

1 - FORM I
ANALYSIS DATA SHEET
LCS

289

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0517
Client: WSP Project: 5140 Site - Yorkville, NY
Matrix: Soil Laboratory ID: B090653-BS1 File ID: D0220054.D
Sampled: Prepared: 02/20/14 11:28 Analyzed: 02/20/14 23:18
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.17	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.15	0.048	0.10	

Data Path : C:\msdchem\1\DATA\022014\
 Data File : D0220054.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Feb 2014 11:18 pm
 Operator : JMB
 Sample : B093653-B5105X Inst : ECD 4
 Misc :
 ALS Vial : 54 Sample Multiplier: 1

Integration File signal 1: 1254-F.E
 Integration File signal 2: 1254-B.E
 Quant Time: Feb 21 14:37:23 2014
 Quant Method : C:\msdchem\1\METHODS\pcb methods\4-1260-021014.M
 DataAcq Meth: PCB01.M
 Quant Title : 1260/1016 02/03/14 12/05/13
 QLast Update : Mon Feb 03 15:03:28 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System: Monitoring Compounds						
1) S Tetrachlo...	2.178	2.657	533.6E6	363.4E6	29.359	32.035
Spiked Amount	20.000 Range	60 - 300	Recovery	=	146.80%	160.17%
2) S Decachlor...	6.234	6.985	682.2E6	534.9E6	33.825	33.775
Spiked Amount	20.000 Range	60 - 300	Recovery	=	169.13%	168.88%
Target Compounds						
3) L1 1016{1}	2.691	3.511	22400562	5990642	32.386	33.443
4) L1 1016{2}	2.999	3.669	25278830	18742160	28.535m	33.532m
5) L1 1016{3}	3.088	3.769	15887323	12018999	25.542	31.758m
6) L1 1016{4}	3.129	3.847	9692568	7079567	24.696	33.515 #
7) L1 1016{5}	3.364	4.125	14374281	9968445	30.090m	34.224
Sum 1016			87633565	53799812	141.250	166.472
Average 1016					28.250	33.294
8) L7 1260{1}	4.447	5.116	42622112	21085446	29.714	31.024
9) L7 1260{2}	4.658	5.283	47641740	25969242	30.039	30.602
10) L7 1260{3}	4.747	5.647	30481876	20517349	33.687	31.290
11) L7 1260{4}	4.935	5.887	29227210	23870860	28.498	30.938
12) L7 1260{5}	5.181	6.073	72197624	50821672	33.726	30.149
Sum 1260			222.2E6	142.3E6	155.663	154.002
Average 1260					31.133	30.800

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

CHECKED BY:
 PETER GRYSZCZAK FEB 21 2014

1 - FORM I
ANALYSIS DATA SHEET

LCS Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0517
Client: WSP Project: 5140 Site - Yorkville, NY
Matrix: Soil Laboratory ID: B090653-BSD1 File ID: D0220055.D
Sampled: Prepared: 02/20/14 11:28 Analyzed: 02/20/14 23:31
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.15	0.031	0.10	
11096-82-5	Aroclor-1260	0.16	0.048	0.10	

62

303

1 - FORM I
ANALYSIS DATA SHEET

LCS Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0517
Client: WSP Project: 5140 Site - Yorkville, NY
Matrix: Soil Laboratory ID: B090653-BSD1 File ID: D0220055.D
Sampled: Prepared: 02/20/14 11:28 Analyzed: 02/20/14 23:31
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.18	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.16	0.048	0.10	

4 - FORM IV METHOD BLANK SUMMARY

140

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory

Work Order: 14B0517

Client: WSP

Project: 5140 Site - Yorkville, NY

Blank ID: B090653-BLK1

Batch: B090653

Prepared: 02/20/2014 11:28

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
Matrix Spike Dup	B090653-MSD1	D0220065.D	01:40
Matrix Spike	B090653-MS1	D0220064.D	01:27
LCS Dup	B090653-BSD1	D0220055.D	23:31
LCS	B090653-BS1	D0220054.D	23:18
Berm 10N-205E	14B0517-08	D0220081.D	17:19
Berm 5N-205E	14B0517-07	D0220080.D	17:06
Berm 5N-195E	14B0517-06	D0220079.D	16:53
Berm 5N-185E	14B0517-05	D0220078.D	16:40
Berm 5N-175E	14B0517-04	D0220077.D	16:27
Berm 5N-165E	14B0517-03	D0220076.D	16:14
Berm 5N-155E	14B0517-02	D0220075.D	16:02
N. Footer Conc.	14B0517-01	D0220056.D	23:44

1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0517
Client: WSP Project: 5140 Site - Yorkville, NY
Matrix: Soil Laboratory ID: B090653-BLK1 File ID: D0220053 D
Sampled: Prepared: 02/20/14 11:28 Analyzed: 02/20/14 23:05
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0062	0.020	
11104-28-2	Aroclor-1221		0.020	0.020	
11141-16-5	Aroclor-1232		0.012	0.020	
53469-21-9	Aroclor-1242		0.010	0.020	
12672-29-6	Aroclor-1248		0.012	0.020	
11097-69-1	Aroclor-1254		0.0086	0.020	
11096-82-5	Aroclor-1260		0.0096	0.020	
37324-23-5	Aroclor-1262		0.0082	0.020	
11100-14-4	Aroclor-1268		0.012	0.020	

1 - FORM I

ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0517
 Client: WSP Project: 5140 Site - Yorkville, NY
 Matrix: Soil Laboratory ID: B090653-BLK1 File ID: D0220053.D
 Sampled: Prepared: 02/20/14 11:28 Analyzed: 02/20/14 23:05
 Solids: Preparation: SW-846 3546 Dilution:
 Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4
 Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]		0.0062	0.020	
11104-28-2	Aroclor-1221 [2C]		0.020	0.020	
11141-16-5	Aroclor-1232 [2C]		0.012	0.020	
53469-21-9	Aroclor-1242 [2C]		0.010	0.020	
12672-29-6	Aroclor-1248 [2C]		0.012	0.020	
11097-69-1	Aroclor-1254 [2C]		0.0086	0.020	
11096-82-5	Aroclor-1260 [2C]		0.0096	0.020	
37324-23-5	Aroclor-1262 [2C]		0.0082	0.020	
11100-14-4	Aroclor-1268 [2C]		0.012	0.020	

PREPARATION BENCH SHEET

322

B090653

Con-Test Analytical Laboratory

Printed: 5/6/2014 11:58:35AM

Matrix: Soil

Prepared using: SV-GC - SW-846 3546

Surrogate used: 1402112

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Location	Client	Extraction Comments
14B0517-01	8082	02/20/14	10.3	10				Box #837	WSP	Report to 0.1 mg/kg
14B0517-02	8082	02/20/14	10	10				Box #837	WSP	Report to 0.1 mg/kg
14B0517-03	8082	02/20/14	10.1	10				Box #837	WSP	Report to 0.1 mg/kg
14B0517-04	8082	02/20/14	10.1	10				Box #837	WSP	Report to 0.1 mg/kg
14B0517-05	8082	02/20/14	10.3	10				Box #837	WSP	Report to 0.1 mg/kg
14B0517-06	8082	02/20/14	10.3	10				Box #837	WSP	Report to 0.1 mg/kg
14B0517-07	8082	02/20/14	10	10				Box #837	WSP	Report to 0.1 mg/kg, Wet
14B0517-08	8082	02/20/14	10.2	10				Box #837	WSP	Report to 0.1 mg/kg, Wet
14B0559-01	8082	02/20/14	10.16	10				Box #837	WSP	Report to 0.1 mg/kg, Wet
B090653-RTK1	QC	02/20/14	10	10				Box #837		
B090653-BS1	QC	02/20/14	10	10	1402138		1000			
B090653-BSD1	QC	02/20/14	10	10	1402138		1000			
B090653-MS1	QC	02/20/14	10.2	10	1402138	14B0517-02	1000			
B090653-MSD1	QC	02/20/14	10.4	10	1402138	14B0517-02	1000			

Spiking Witnessed By

Date

Preparation Reviewed By

Date

Extracts Received By

Date

Injection Log

C:\msdchem\1\DATA\ARCHIVE_2014 RUN DATES\022014\

Date	Filename	Lab ID	Sample Info
20 Feb 2014	8:03 am	D0220001.D ISO	
20 Feb 2014	8:16 am	D0220002.D ISO	
20 Feb 2014	8:29 am	D0220003.D ISO	
20 Feb 2014	8:42 am	D0220004.D 1260/1016 100	1312045
20 Feb 2014	8:55 am	D0220005.D 1254 100	1309167
20 Feb 2014	9:08 am	D0220006.D 1248 100	1308296
20 Feb 2014	9:21 am	D0220007.D 1242 100	1308268
20 Feb 2014	9:34 am	D0220008.D 1232/1268 100	1312248
20 Feb 2014	9:47 am	D0220009.D 1221/1262 100	1401037
20 Feb 2014	9:59 am	D0220010.D ISO	
20 Feb 2014	10:12 am	D0220011.D B090511-BLK1@TBA	
20 Feb 2014	10:25 am	D0220012.D B090511-BS1@5X TBA	
20 Feb 2014	10:38 am	D0220013.D B090511-BSD1@5X TBA	
20 Feb 2014	10:51 am	D0220014.D 14B0380-03@5X TBA	
20 Feb 2014	11:04 am	D0220015.D 14B0380-10@5X TBA	
20 Feb 2014	11:17 am	D0220016.D 14B0380-11@5X TBA	
20 Feb 2014	11:30 am	D0220017.D 14B0406-03@5X TBA	
20 Feb 2014	11:43 am	D0220018.D 14B0406-06@5X TBA	
20 Feb 2014	11:56 am	D0220019.D ISO	
20 Feb 2014	12:09 pm	D0220020.D 1260/1016 50	
20 Feb 2014	12:22 pm	D0220021.D 14B0370-01@4X	
20 Feb 2014	12:35 pm	D0220022.D 14B0370-02@4X	
20 Feb 2014	12:48 pm	D0220023.D 14B0370-03@4X	
20 Feb 2014	1:01 pm	D0220024.D 14B0370-04@4X	
20 Feb 2014	1:14 pm	D0220025.D 14B0370-05@4X	
20 Feb 2014	1:27 pm	D0220026.D 14B0370-06@4X	
20 Feb 2014	1:39 pm	D0220027.D ISO	
20 Feb 2014	1:52 pm	D0220028.D ISO	
20 Feb 2014	2:05 pm	D0220029.D 1260/1016 100	
20 Feb 2014	2:18 pm	D0220030.D B090487-BLK1@C TBA	
20 Feb 2014	2:31 pm	D0220031.D B090536-BLK1@C	
20 Feb 2014	2:44 pm	D0220032.D B090536-BS1@C	
20 Feb 2014	2:57 pm	D0220033.D B090536-BSD1@C	
20 Feb 2014	3:10 pm	D0220034.D B090487-BS1@C TBA	
20 Feb 2014	3:23 pm	D0220035.D B090487-BSD1@C TBA	
20 Feb 2014	3:36 pm	D0220036.D ISO	
20 Feb 2014	3:49 pm	D0220037.D 1260/1016 50	
20 Feb 2014	4:01 pm	D0220038.D 14B0361-01@4X	
20 Feb 2014	4:14 pm	D0220039.D 14B0361-02@4X	
20 Feb 2014	4:27 pm	D0220040.D 14B0422-02@4X	
20 Feb 2014	4:40 pm	D0220041.D 14B0422-03@4X TBA	
20 Feb 2014	4:53 pm	D0220042.D 14B0422-04@4X	
20 Feb 2014	5:06 pm	D0220043.D 14B0422-05@4X	
20 Feb 2014	5:19 pm	D0220044.D 14B0422-06@4X TBA	
20 Feb 2014	5:32 pm	D0220045.D 14B0422-07@4X	
20 Feb 2014	5:45 pm	D0220046.D 14B0390-01@4X	
20 Feb 2014	6:03 pm	D0220047.D 14B0422-01@4X 3CU	
20 Feb 2014	6:21 pm	D0220048.D ISO	
20 Feb 2014	6:39 pm	D0220049.D ISO	
20 Feb 2014	6:57 pm	D0220050.D ISO	
20 Feb 2014	7:15 pm	D0220051.D 1260/1016 100	
20 Feb 2014	10:52 pm	D0220052.D ISO	
20 Feb 2014	11:05 pm	D0220053.D B090653-BLK1	
20 Feb 2014	11:18 pm	D0220054.D B090653-BS1@5X	
20 Feb 2014	11:31 pm	D0220055.D B090653-BSD1@5X	
20 Feb 2014	11:44 pm	D0220056.D 14B0517-01@5X	
20 Feb 2014	11:57 pm	D0220057.D 14B0517-02@5X	
21 Feb 2014	12:10 am	D0220058.D 14B0517-03@5X	
21 Feb 2014	12:23 am	D0220059.D 14B0517-04@5X	
21 Feb 2014	12:36 am	D0220060.D 14B0517-05@5X	
21 Feb 2014	12:48 am	D0220061.D 14B0517-06@5X	
21 Feb 2014	1:01 am	D0220062.D 14B0517-07@5X	

Injection Log

C:\msdchem\1\DATA\ARCHIVE_2014 RUN DATES\022014\

Date		Filename	Lab ID	Sample Info
21 Feb 2014	1:14 am	D0220063.D	14B0517-08@5X	
21 Feb 2014	1:27 am	D0220064.D	B090653-MS1@5X	
21 Feb 2014	1:40 am	D0220065.D	B090653-MSD1@5X	
21 Feb 2014	1:53 am	D0220066.D	ISO	
21 Feb 2014	2:06 am	D0220067.D	1260/1016 50	
21 Feb 2014	8:28 am	D0220068.D	ISO	
21 Feb 2014	8:41 am	D0220069.D	ISO	
21 Feb 2014	8:54 am	D0220070.D	1260/1016 100	
21 Feb 2014	1:05 pm	D0220071.D	ISO	
21 Feb 2014	1:20 pm	D0220072.D	14B0422-01@4X 3CU RR	
21 Feb 2014	3:36 pm	D0220073.D	ISO	
21 Feb 2014	3:49 pm	D0220074.D	14B0422-01@80X 3CU RR	
21 Feb 2014	4:02 pm	D0220075.D	14B0517-02@200X	
21 Feb 2014	4:14 pm	D0220076.D	14B0517-03@50X	
21 Feb 2014	4:27 pm	D0220077.D	14B0517-04@25X	
21 Feb 2014	4:40 pm	D0220078.D	14B0517-05@100X	
21 Feb 2014	4:53 pm	D0220079.D	14B0517-06@500X	
21 Feb 2014	5:06 pm	D0220080.D	14B0517-07@25X	
21 Feb 2014	5:19 pm	D0220081.D	14B0517-08@25X	
21 Feb 2014	5:32 pm	D0220082.D	ISO	
21 Feb 2014	5:45 pm	D0220083.D	1260/1016 50	
21 Feb 2014	5:58 pm	D0220084.D	B090653-BLK1@TBA	
21 Feb 2014	6:11 pm	D0220085.D	B090653-BSD1@5X TBA	
21 Feb 2014	6:23 pm	D0220086.D	B090653-BSD1@5X TBA	
21 Feb 2014	6:36 pm	D0220087.D	14B0559-01@5X TBA	
21 Feb 2014	6:49 pm	D0220088.D	ISO	
21 Feb 2014	7:02 pm	D0220089.D	1260/1016 100	

Method Path : C:\msdchem\1\METHODS\pcb methods\
 Method File : 4-1260-020314C.M
 Title : 1260/1016 02/03/14 12/05/13
 Last Update : Mon Feb 03 15:03:20 2014
 Response Via : Initial Calibration

Calibration Files

=D005.D = 5 =D0203011.D
 10 =D0203012.D 20 =D0203013.D 50 =D0203014.D

Compound			5	10	20	50	Avg	%RSD			
1)	S	Tetrachloro-m...	1.750	1.777	1.792	1.753	1.877	1.886	1.818	E7	3.49
2)	S	Decachlorobip...	2.169	2.061	1.994	1.902	1.986	2.001	2.017	E7	4.06
3)	L1	1016 {1}		8.381	7.683	6.663	6.543	6.173	6.917	E5	13.30
4)	L1	1016 {2}		9.532	9.159	8.182	8.721	8.741	8.859	E5	5.14
5)	L1	1016 {3}		7.196	6.781	5.986	5.976	5.718	6.220	E5	10.02
6)	L1	1016 {4}		4.308	4.277	3.780	3.838	3.684	3.925	E5	7.45
7)	L1	1016 {5}		5.554	5.231	4.574	4.549	4.417	4.777	E5	10.36
8)	L7	1260 {1}		1.654	1.524	1.350	1.371	1.354	1.434	E6	8.85
9)	L7	1260 {2}		1.803	1.681	1.495	1.525	1.507	1.586	E6	8.02
10)	L7	1260 {3}		1.073	0.978	0.859	0.858	0.834	0.905	E6	10.92
11)	L7	1260 {4}		1.213	1.082	0.972	0.975	0.968	1.026	E6	10.14
12)	L7	1260 {5}		2.316	2.178	2.000	2.097	2.125	2.141	E6	4.87

Signal #2 Calibration Files

=D005.D = 5 =D0203011.D
 10 =D0203012.D 20 =D0203013.D 50 =D0203014.D

Compound			5	10	20	50	Avg		%RSD		
1)	S	Tetrachloro-m...	1.099	1.125	1.122	1.095	1.167	1.161	1.134	E7	2.83
2)	S	Decachlorobip...	1.719	1.636	1.590	1.464	1.539	1.567	1.584	E7	5.01
3)	L1	1016 {1}		1.994	1.913	1.790	1.774	1.648	1.791	E5	8.01
4)	L1	1016 {2}		5.579	5.463	5.177	5.819	5.731	5.589	E5	4.31
5)	L1	1016 {3}		4.835	3.976	3.569	3.563	3.384	3.785	E5	14.76
6)	L1	1016 {4}		2.083	2.211	2.094	2.138	2.066	2.112	E5	2.56
7)	L1	1016 {5}		3.199	3.105	2.861	2.861	2.722	2.913	E5	6.77
8)	L7	1260 {1}		7.777	7.156	6.600	6.615	6.333	6.797	E5	8.39
9)	L7	1260 {2}		1.001	0.937	0.798	0.805	0.776	0.849	E6	11.33
10)	L7	1260 {3}		7.405	7.068	6.279	6.341	6.139	6.557	E5	8.29
11)	L7	1260 {4}		8.499	8.150	7.428	7.527	7.354	7.716	E5	6.33
12)	L7	1260 {5}		1.799	1.728	1.608	1.676	1.667	1.686	E6	4.07

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method Path : C:\msdchem\1\METHODS\pcb methods\
 Method File : 4-1260-020314C.M
 Title : 1260/1016 02/03/14 12/05/13
 Last Update : Mon Feb 03 15:03:28 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
3	5	-1	0	C:\msdchem\1\DATA\020314A\D0203011.D
4	10	10	0	C:\msdchem\1\DATA\020314A\D0203012.D
5	20	20	0	C:\msdchem\1\DATA\020314A\D0203013.D
6	50	50	0	C:\msdchem\1\DATA\020314A\D0203014.D
7	100	100	0	C:\msdchem\1\DATA\020314A\D0203015.D

#	ID	Update Time	Quant Time	Acquisition Time
3	5	Feb 03 14:53 2014	Feb 03 14:53 2014	
4	10	Feb 03 14:53 2014	Feb 03 14:53 2014	
5	20	Feb 03 14:53 2014	Feb 03 14:53 2014	
6	50	Feb 03 15:02 2014	Feb 03 14:58 2014	
7	100	Feb 03 14:53 2014	Feb 03 14:53 2014	

4-1260-020314C.M Mon Feb 03 15:06:57 2014

Data Path : C:\msdchem\1\DATA\020314A\
 Data File : D0203014.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 3 Feb 2014 12:30 pm
 Operator : JMB
 Sample : 1260/1016 S0 Inst : ECD 4
 Misc :
 ALS Val : 14 Sample Multiplier: 1

Integration File signal 1: FRONT-1260.E
 Integration File signal 2: 1260-BACK.E
 Quant Time: Feb 03 14:58:53 2014
 Quant Method : C:\msdchem\1\METHODS\pcb methods\4-1260-020314C.M
 DataAcq Meth:PCB01.M
 Quant Title : 1260/1016 02/03/14 12/05/13
 QLast Update : Mon Feb 03 14:53:12 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) S Tetrachlo...	2.258	2.730	876.6E6	547.4E6	49.444	49.069
Spiked Amount	20.000 Range	60 - 300	Recovery	=	247.22%	245.35%
2) S Decachlor...	6.328	7.061	950.8E6	732.0E6	45.833	44.406
Spiked Amount	20.000 Range	60 - 300	Recovery	=	229.16%	222.03%
Target Compounds						
3) L1 1016{1}	2.772	3.598	33313099	8949549	41.475	45.818
4) L1 1016{2}	3.087	3.758	40907988	25886839	43.774m	46.888
5) L1 1016{3}	3.177	3.859	29929538	17846488	42.827	40.508
6) L1 1016{4}	3.219	3.938	18898613	10468268	44.026	48.764
7) L1 1016{5}	3.459	4.219	22869503	14304721	42.410	45.383
Sum 1016			145.9E6	77455864	214.512	227.360
Average 1016					42.902	45.472
8) L7 1260{1}	4.553	5.219	67523820	33001365	42.490	44.197
9) L7 1260{2}	4.765	5.386	74732429	39893309	42.903	41.168
10) L7 1260{3}	4.856	5.752	42951585	31394931	41.890	43.385
11) L7 1260{4}	5.045	5.986	48591849	37139574	42.332	44.616
12) L7 1260{5}	5.291	6.165	100.0E6	80416118	44.498	45.599
Sum 1260			333.9E6	221.8E6	214.114	218.964
Average 1260					42.823	43.793

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Method Path : C:\msdchem\1\METHODS\pcb methods\
 Method File : 4-1254-020314C.M
 Title : 1254 02/03/13 09/17/13
 Last Update : Tue Feb 04 09:00:26 2014
 Response Via : Initial Calibration

Calibration Files

=0005.D 5 =D0203011.D 10 =D0203012.D
 20 =D0203013.D 50 =D0203014.D 100 =D0203015.D

Compound	5	10	20	50	100	Avg	%RSD
1) S Tetrachloro-m...	1.750	1.777	1.792	1.753	1.877	1.886	1.818 E7 3.49
2) S Decachlorobip...	2.169	2.061	1.994	1.902	1.986	2.001	2.017 E7 4.06
3) L6 1254{1}	7.610	7.049	6.346	6.151	5.978	6.505	E5 10.47
4) L6 1254{2}	1.338	1.254	1.144	1.157	1.167	1.203	E6 6.37
5) L6 1254{3}	9.867	9.279	8.565	8.535	7.922	8.555	E5 11.02
6) L6 1254{4}	1.040	1.001	0.923	0.897	0.881	0.935	E6 7.45
7) L6 1254{5}	1.418	1.390	1.303	1.300	1.313	1.338	E6 3.90

Signal #2 Calibration Files

=0005.D 5 =D0203011.D 10 =D0203012.D
 20 =D0203013.D 50 =D0203014.D 100 =D0203015.D

Compound	5	10	20	50	100	Avg	%RSD
1) S Tetrachloro-m...	1.099	1.125	1.122	1.095	1.167	1.161	1.134 E7 2.83
2) S Decachlorobip...	1.719	1.636	1.590	1.464	1.539	1.567	1.584 E7 5.01
3) L6 1254{1}	5.060	5.005	4.577	4.631	4.485	4.695	E5 5.82
4) L6 1254{2}	6.272	5.786	5.167	5.261	5.128	5.442	E5 8.92
5) L6 1254{3}	8.754	8.405	7.800	7.951	7.970	8.126	E5 4.58
6) L6 1254{4}	4.569	4.544	4.195	4.157	4.022	4.236	E5 6.29
7) L6 1254{5}	1.033	1.032	0.970	0.972	0.963	0.987	E6 3.59

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method Path : C:\msdchem\1\METHODS\pcb methods\
 Method File : 4-1254-020314C.M
 Title : 1254 02/03/13 09/17/13
 Last Update : Tue Feb 04 09:00:26 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
2	5	5	0	C:\msdchem\1\DATA\020314A\D0203011.D
3	10	10	0	C:\msdchem\1\DATA\020314A\D0203012.D
4	20	20	0	C:\msdchem\1\DATA\020314A\D0203013.D
5	50	50	0	C:\msdchem\1\DATA\020314A\D0203014.D
6	100	100	0	C:\msdchem\1\DATA\020314A\D0203015.D
7	200	200	0	C:\msdchem\1\DATA\020314A\D0203016.D

#	ID	Update Time	Quant Time	Acquisition Time
2	5	Feb 04 09:00 2014	Feb 04 08:46 2014	
3	10	Feb 04 09:00 2014	Feb 04 08:46 2014	
4	20	Feb 04 09:00 2014	Feb 04 08:46 2014	
5	50	Feb 04 09:00 2014	Feb 04 08:46 2014	
6	100	Feb 04 09:00 2014	Feb 04 08:46 2014	
7	200	Feb 04 09:00 2014	Feb 04 08:46 2014	

4-1254-020314C.M Tue Feb 04 09:00:54 2014

Method Path : C:\msdchem\1\METHODS\pcb methods\
 Method File : 4-1248-020314C.M
 Title : 1248 02/03/14 08/29/13
 Last Update : Tue Feb 04 09:10:57 2014
 Response Via : Initial Calibration

Calibration Files

=0005.D 5 =D0203011.D 10 =D0203012.D
 20 =D0203013.D 50 =D0203014.D 100 =D0203015.D

Compound	5	10	20	50	100	Avg	%RSD
1) S Tetrachloro-m...	1.750	1.777	1.792	1.753	1.877	1.856	1.818 E7 3.49
2) S Decachlorobip...	2.169	2.061	1.994	1.902	1.986	2.001	2.017 E7 4.06
3) L5 1248{1}		4.384	4.353	3.803	3.913	4.192	3.930 E5 13.78
4) L5 1248{2}		6.799	6.954	5.918	5.925	6.097	6.265 E5 7.69
5) L5 1248{3}		4.953	5.127	4.464	4.551	4.632	4.699 E5 5.88
6) L5 1248{4}		6.961	6.708	6.119	6.299	6.669	6.534 E5 4.67
7) L5 1248{5}		6.905	6.451	6.410	6.417	6.801	6.572 E5 3.36

Signal #2 Calibration Files

=0005.D 5 =D0203011.D 10 =D0203012.D
 20 =D0203013.D 50 =D0203014.D 100 =D0203015.D

Compound	5	10	20	50	100	Avg	%RSD
1) S Tetrachloro-m...	1.099	1.125	1.122	1.095	1.167	1.161	1.134 E7 2.83
2) S Decachlorobip...	1.719	1.636	1.590	1.464	1.539	1.567	1.584 E7 5.01
3) L5 1248{1}		2.065	2.568	2.072	2.424	2.885	2.464 E5 14.01
4) L5 1248{2}		3.130	3.364	2.863	2.862	2.876	2.971 E5 7.82
5) L5 1248{3}		4.129	4.313	3.726	3.743	3.861	3.912 E5 6.45
6) L5 1248{4}		4.440	4.767	4.160	4.231	4.431	4.380 E5 5.04
7) L5 1248{5}		5.318	5.813	5.098	5.182	5.441	5.183 E5 10.05

(#) = Out of Range ### Number of calibration levels exceeded format ###

79

Method Path : C:\msdchem\1\METHODS\pcb methods\
 Method File : 4-1248-020314C.M
 Title : 1248 02/03/14 08/29/13
 Last Update : Tue Feb 04 09:10:57 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
2	5	5	0	C:\msdchem\1\DATA\020314A\D0203011.D
3	10	10	0	C:\msdchem\1\DATA\020314A\D0203012.D
4	20	20	0	C:\msdchem\1\DATA\020314A\D0203013.D
5	50	50	0	C:\msdchem\1\DATA\020314A\D0203014.D
6	100	100	0	C:\msdchem\1\DATA\020314A\D0203015.D
7	200	200	0	C:\msdchem\1\DATA\020314A\D0203016.D

#	ID	Update Time	Quant Time	Acquisition Time
2	5	Feb 04 09:10 2014	Feb 04 08:46 2014	
3	10	Feb 04 09:10 2014	Feb 04 08:46 2014	
4	20	Feb 04 09:10 2014	Feb 04 08:46 2014	
5	50	Feb 04 09:10 2014	Feb 04 08:46 2014	
6	100	Feb 04 09:10 2014	Feb 04 08:46 2014	
7	200	Feb 04 09:10 2014	Feb 04 08:46 2014	

4-1248-020314C.M Tue Feb 04 09:11:30 2014

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0517
Client:	WSP	Project:	5140 Site - Yorkville, NY
Instrument ID:	ECD4	Calibration:	1400041
Lab File ID:	D0220004.D	Calibration Date:	02/03/14 00:00
Sequence:	S005890	Injection Date:	02/20/14
Lab Sample ID:	S005890-CCV1	Injection Time:	08:42

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	99.4				-0.6	15
Aroclor-1016 [2C]	A	100	104				3.7	15
Aroclor-1260	A	100	88.6				-11.4	15
Aroclor-1260 [2C]	A	100	85.9				-14.1	15
Decachlorobiphenyl	A	100	93.8	2.016737E+07	1.8916E+07		-6.2	
Decachlorobiphenyl [2C]	A	100	95.9	1.583633E+07	1.5185E+07		-4.1	
Tetrachloro-m-xylene	A	100	91.0	1.817602E+07	1.6538E+07		-9.0	
Tetrachloro-m-xylene [2C]	A	100	99.6	1.134316E+07	1.1302E+07		-0.4	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory	Con-Test Analytical Laboratory	Work Order:	14B0517
Client:	WSP	Project:	5140 Site - Yorkville, NY
Instrument ID:	ECD4	Calibration:	1400041
Lab File ID:	D0220005.D	Calibration Date:	02/03/14 00:00
Sequence:	S005890	Injection Date:	02/20/14
Lab Sample ID:	S005890-CCV2	Injection Time:	08:55

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254	A	100	89.2				-10.8	15
Aroclor-1254 [2C]	A	100	81.1				-18.9	15
Decachlorobiphenyl	A	100	91.5	2.016737E+07	1.8462E+07		-8.5	
Decachlorobiphenyl [2C]	A	100	93.6	1.583633E+07	1.4827E+07		-6.4	
Tetrachloro-m-xylene	A	100	88.9	1.817602E+07	1.6154E+07		-11.1	
Tetrachloro-m-xylene [2C]	A	100	97.0	1.134316E+07	1.1002E+07		-3.0	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0517
Client:	WSP	Project:	5140 Site - Yorkville, NY
Instrument ID:	ECD4	Calibration:	1400041
Lab File ID:	DD220006.D	Calibration Date:	02/03/14 00:00
Sequence:	S005890	Injection Date:	02/20/14
Lab Sample ID:	S005890-CCV3	Injection Time:	09:08

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1248	A	100	95.4				-4.6	15
Aroclor-1248 [2C]	A	100	92.0				-8.0	15
Decachlorobiphenyl	A	100	99.4	2.016737E+07	2.004E+07		-0.6	/
Decachlorobiphenyl [2C]	A	100	101	1.583633E+07	1.6068E+07		1.5	
Tetrachloro-m-xylene	A	100	100	1.817602E+07	1.8236E+07		0.3	
Tetrachloro-m-xylene [2C]	A	100	110	1.134316E+07	1.2448E+07		9.7	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0517
Client:	WSP	Project:	5140 Site - Yorkville, NY
Instrument ID:	ECD4	Calibration:	1400041
Lab File ID:	D0220051.D	Calibration Date:	02/03/14 00:00
Sequence:	S005890	Injection Date:	02/20/14
Lab Sample ID:	S005890-CCV4	Injection Time:	19:15

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	85.6				-14.4	15
Aroclor-1016 [2C]	A	100	94.0				-6.0	15
Aroclor-1260	A	100	89.2				-10.8	15
Aroclor-1260 [2C]	A	100	88.9				-11.1	15
Decachlorobiphenyl	A	100	95.2	2.016737E+07	1.9198E+07		-4.8	
Decachlorobiphenyl [2C]	A	100	97.3	1.583633E+07	1.5404E+07		-2.7	
Tetrachloro-m-xylene	A	100	92.2	1.817602E+07	1.6762E+07		-7.8	
Tetrachloro-m-xylene [2C]	A	100	103	1.134316E+07	1.1679E+07		3.0	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0517
Client:	WSP	Project:	5140 Site - Yorkville, NY
Instrument ID:	ECD4	Calibration:	1400041
Lab File ID:	D0220067.D	Calibration Date:	02/03/14 00:00
Sequence:	S005890	Injection Date:	02/21/14
Lab Sample ID:	S005890-CCV5	Injection Time:	02:06

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	50.0	41.9				-16.2	15
Aroclor-1016 [2C]	A	50.0	47.5				-5.0	15
Aroclor-1260	A	50.0	45.5				-9.1	15
Aroclor-1260 [2C]	A	50.0	45.9				-8.1	15
Decachlorobiphenyl	A	50.0	41.7	2.016737E+07	1.6804E+07		-16.7	
Decachlorobiphenyl [2C]	A	50.0	42.1	1.583633E+07	1.335E+07		-15.7	
Tetrachloro-m-xylene	A	50.0	43.0	1.817602E+07	1.5616E+07		-14.1	
Tetrachloro-m-xylene [2C]	A	50.0	48.1	1.134316E+07	1.0914E+07		-3.8	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\022014\
 Data File : D0220067.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2014 2:06 am
 Operator : JMB
 Sample : 1260/1016 50 Inst : ECD 4
 Misc :
 ALS Vial : 67 Sample Multiplier: 1

Integration File signal 1: FRONT-1260.E
 Integration File signal 2: 1260-BACK.E
 Quant Time: Feb 21 14:41:10 2014
 Quant Method : C:\msdchem\1\METHODS\pcb methods\4-1260-021014.M
 DataAcq Meth: PCB01.M
 Quant Title : 1260/1016 02/03/14 12/05/13
 QLast Update : Mon Feb 03 15:03:28 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.179	2.657	780.8E6	545.7E6	42.956	48.101
Spiked Amount	20.000 Range	60 - 300	Recovery	=	214.78%	240.51%
2) S Decachlor...	6.232	6.985	840.2E6	667.5E6	41.658	42.148
Spiked Amount	20.000 Range	60 - 300	Recovery	=	208.29%	210.74%
Target Compounds						
3) L1 1016 {1}	2.690	3.511	31171722	8858305	45.068	49.452
4) L1 1016 {2}	2.998	3.668	38217392	27340758	43.140m	48.916m
5) L1 1016 {3}	3.086	3.769	25085900	16205753	40.331	42.821
6) L1 1016 {4}	3.128	3.848	14966540	10164142	38.134	48.118 #
7) L1 1016 {5}	3.364	4.125	20428208	14060133	42.763	48.271
Sum 1016			129.9E6	76629089	209.435	237.578
Average 1016					41.887	47.516
8) L7 1260 {1}	4.446	5.117	63552956	32245165	44.306	47.444
9) L7 1260 {2}	4.656	5.283	71942862	38830364	45.361	45.757
10) L7 1260 {3}	4.746	5.647	42180663	29849090	46.616	45.521
11) L7 1260 {4}	4.933	5.886	43722544	35364658	42.632	45.834
12) L7 1260 {5}	5.179	6.073	103.7E6	76112380	48.445	45.152
Sum 1260			325.1E6	212.4E6	227.360	229.708
Average 1260					45.472	45.942

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

CHECKED BY:
 PETER GRAYSONWICZ FEB 21 2014

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0517
Client:	WSP	Project:	5140 Site - Yorkville, NY
Instrument ID:	ECD4	Calibration:	1400041
Lab File ID:	D0220070.D	Calibration Date:	02/03/14 00:00
Sequence:	S005890	Injection Date:	02/21/14
Lab Sample ID:	S005890-CCV6	Injection Time:	08:54

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	87.0				-13.0	15
Aroclor-1016 [2C]	A	100	91.1				-8.9	15
Aroclor-1260	A	100	90.5				-9.5	15
Aroclor-1260 [2C]	A	100	86.2				-13.8	15
Decachlorobiphenyl	A	100	91.1	2.016737E+07	1.837E+07		-8.9	
Decachlorobiphenyl [2C]	A	100	89.3	1.583633E+07	1.4148E+07		-10.7	
Tetrachloro-m-xylene	A	100	94.3	1.817602E+07	1.7138E+07		-5.7	
Tetrachloro-m-xylene [2C]	A	100	100	1.134316E+07	1.1365E+07		0.2	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

258

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0517
Client:	WSP	Project:	6140 Site - Yorkville, NY
Instrument ID:	ECD4	Calibration:	1400041
Lab File ID:	D0220083.D	Calibration Date:	02/03/14 00:00
Sequence:	S005890	Injection Date:	02/21/14
Lab Sample ID:	S005890-CCV7	Injection Time:	17:45

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	50.0	43.6				-12.8	15
Aroclor-1016 [2C]	A	50.0	48.5				-2.9	15
Aroclor-1260	A	50.0	46.8				-6.5	15
Aroclor-1260 [2C]	A	50.0	45.3				-9.4	15
Decachlorobiphenyl	A	50.0	46.5	2.016737E+07	1.877E+07		-6.9	
Decachlorobiphenyl [2C]	A	50.0	45.7	1.583633E+07	1.4468E+07		-8.6	
Tetrachloro-m-xylene	A	50.0	46.0	1.817602E+07	1.6734E+07		-7.9	
Tetrachloro-m-xylene [2C]	A	50.0	49.7	1.134316E+07	1.1276E+07		-0.6	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data Validation Report

**WSP Group
5140 Commercial Dr.
Yorkville, New York**

SDG# 14B0517



ECT.CON INC.

Environmental and Computer
Technology Consultants

115 Riverview Bend South Unit 2144
Palm Coast, FL 32137
Office (386) 283-9360
Cell (724) 288-1971
e-mail: ectconinc@mac.com

DATA VALIDATION REPORT

Project Name: 5140 Commercial Dr. Yorkville, NY
 SDG #: 14B0517

 Performed for: WSP

 Laboratory: Con-test Analytical Laboratory

 Validation Performed by: ECT, CON INC
 Validation Guidance: USEPA CLP National Functional Guidelines for Organic
 Data Review (NFG)

 Validation Report Date: 5/7/14

Samples/Matrix:

	Sample Date	Sample ID	Laboratory ID	Matrix
1	02/19/14	N. Footer Conc.	14B0517-01	Solid
2	02/19/14	Berm 5N-155E	14B0517-02	Solid
3	02/19/14	Berm 5N-165E	14B0517-03	Solid
4	02/19/14	Berm 5N-175E	14B0517-04	Solid
5	02/19/14	Berm 5N-185E	14B0517-05	Solid
6	02/19/14	Berm 5N-195E	14B0517-06	Solid
7	02/19/14	Berm 5N-205E	14B0517-07	Solid
8	02/19/14	Berm 10N-205E	14B0517-08	Solid

This sample set consists of the following:

Field Samples :	7
Trip Blanks :	0
Equipment Blanks :	0
Field Blanks :	0
Field Duplicates:	1

Analytical data in this report were reviewed to determine analytical limitations of the data based on specific quality control criteria. This review is performed on a laboratory signed data package. The laboratory signature indicates that the laboratory has reviewed and has certified that the information provided in the data package are correct and complete.

The results of the review are an interpretation of the reported quality control information provided by the laboratory in comparison to the specified validation criteria for the project. Laboratory calculations have been verified as part of the validation. Form 1's and/or analytical results sheets are annotated with the results of the validation.

This evaluation was conducted in accordance with the requested validation guidelines, project requirement and the analytical method. Findings from this validation should be considered when using the analytical data.

The organic findings are based on the validation of the following:

- Sample Preservation
- Holding Times
- Initial Calibration
- Continuing Calibration
- Blanks (lab and field)
- System Monitoring Compounds
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- Laboratory Control Sample (LCS)
- Target Compound Identification
- Compound Quantification and Quantitation Limits
- System Performance

This report consists of the validation findings. This is followed by annotated Form 1's. The final section of the report is supporting documentation. This consists of the Chain of Custody, laboratory case narrative and the validation worksheets.

Project Number: 14B0517

Method Number **Description**
 SW-846 8082 Polychlorinated Biphenyls (PCBs)

					PCB
	Sample Date	Sample ID	Laboratory ID	Matrix	8082
1	02/19/14	N. Footer Conc.	14B0517-01	Solid	X
2	02/19/14	Berm 5N-155E	14B0517-02	Solid	X
3	02/19/14	Berm 5N-165E	14B0517-03	Solid	X
4	02/19/14	Berm 5N-175E	14B0517-04	Solid	X
5	02/19/14	Berm 5N-185E	14B0517-05	Solid	X
6	02/19/14	Berm 5N-195E	14B0517-06	Solid	X
7	02/19/14	Berm 5N-205E	14B0517-07	Solid	X
8	02/19/14	Berm 10N-205E	14B0517-08	Solid	X

FINDINGS

POLYCHLORINATED BIPHENYLS

1. The continuing calibration percent difference for Aroclor 1254 exceeded the 15% quality control limit on one analytical column on instrument ECD 4. In the following samples, positive results for Aroclor 1254 were qualified as estimated, "J."

Berm 5N-155E

Berm 5N-165E

Berm 5N-175E

Berm 5N-185E

Berm 5N-195E

Berm 5N-205E

Berm 10N-205E

NOTES

POLYCHLORINATED BIPHENYLS

A. On instrument ECD 4's analytical sequence, standards for Aroclor 1242, 1232, 1221, 1262, and 1268 are listed as part of the sequence. The quantitation reports for these compounds were not included in the data package. This is noted for completeness only. Data were not qualified on this basis.

B. Surrogate recoveries were not reported for several samples. The noncompliance was due to the necessary dilution of the sample extracts prior to analysis. Data were not qualified on this basis.

Berm 5N-155E Berm 5N-165E Berm 5N-185E Berm 5N-195E

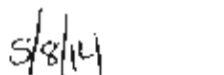
C. Matrix spike/matrix spike duplicate recoveries were outside the laboratory's quality control limits for Berm 5N-155E MS/MSD. The concentration of target compounds in the unspiked sample were greater than 4X the spike amount. Data were not qualified on this basis.

D. The following samples were analyzed and reported at the listed dilution factors due to the presence of target compounds and/or matrix interferences. Data were not qualified on this basis.

Sample	Lab ID	Dilution
N. Footer Conc.	14B0517-01	5X
Berm 5N-155E	14B0517-02	200X
Berm 5N-165E	14B0517-03	50X
Berm 5N-175E	14B0517-04	25X
Berm 5N-185E	14B0517-05	100X
Berm 5N-195E	14B0517-06	500X
Berm 5N-205E	14B0517-07	25X
Berm 10N-205E	14B0517-08	25X

F. The percent solids raw data was not included in the original package. The laboratory was able to supply the requested data. Data were not qualified on this basis.


Data Reviewer


Date

Field Duplicates

Calculated RPD for positive results only.

ND – Nondetected results, -- RPD not calculated.

14B0517-07	14B0517-08		
Sample ID	Duplicate ID	Parameter	RPD
Berm 5N-205E	Berm 10N-205E		
1.2 J	2 J	PCBs 1254	-13%
3.3	2.8	PCBs 1260	4%

Glossary of Data Qualifiers

U	Not Detected	The associated number indicates approximate sample concentration necessary to be detected.
UJ	Not Detected	Quantitation limit may be inaccurate or imprecise.
J	Analyte Present	Reported value is an estimated quantity.
N	Consider Present	Tentative identification. Special methods may be needed to confirm its presence or absence in future sampling efforts.
R	Unusable Result	Analyte may or may not be present in the sample.
UR	Unusable Result	Analyte may or may not be present in the sample.



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Annotated Form 1's
(Spreadsheet)

Hold Times for PCBs - 8082

Preservative: Cool < 4°C

Hold Time: 7 days to extraction aqueous, 14 days to extraction solids, 40 days to analysis aqueous and solids

	Sample Date	Sample ID	Laboratory ID	Matrix	Preservative	Days to Extraction	Date Extracted	Days to Analysis	Date Analyzed	DF	Prep Batch
1	02/19/14	N Footer Conc	14B0517-01	Solid	OK	1	2/20/14	0	2/20/14	5X	B090693
2	02/19/14	Berm 5N-155E	14B0517-02	Solid	OK	1	2/20/14	1	2/21/14	200X	B090693
3	02/19/14	Berm 5N-165E	14B0517-03	Solid	OK	1	2/20/14	1	2/21/14	50X	B090693
4	02/19/14	Berm 5N-175L	14B0517-04	Solid	OK	1	2/20/14	1	2/21/14	25X	B090693
5	02/19/14	Berm 5N-185E	14B0517-05	Solid	OK	1	2/20/14	1	2/21/14	100X	B090693
6	02/19/14	Berm 5N-194E	14B0517-06	Solid	OK	1	2/20/14	1	2/21/14	500X	B090693
7	02/19/14	Berm 5N-205E	14B0517-07	Solid	OK	1	2/20/14	1	2/21/14	25X	B090693
8	02/19/14	Berm 10N-205E	14B0517-08	Solid	OK	1	2/20/14	1	2/21/14	25X	B090693

Calculations for PCBs - 8082

LCS/LCSD Lab limits used for validation unless otherwise noted

Sample	B090653-B51	Compound	PCB 1260
	AMOUNT FOUND	AMOUNT SPIKED	%R
LCS	0.155	0.2	78
LCSD	0.16	0.2	80.0
RPD	-3.2		-3.2

Recovery = ((Amount Found)-(Amount Spiked))*100

RPD = ((LCS-LCSD)/(LCS+LCSD/2))*100

MS/MSD Lab limits used for validation unless otherwise noted

Sample	Berm 5N-155E	Compound	1260
	AMOUNT FOUND	NATIVE AMOUNT	AMOUNT SPIKED
MS	26	26	0.26
MSD	21	26	0.35%
RPD	-17.54		-300.00

Recovery = ((Amount Found)-(Amount Native)/(Amount Spiked))*100

RPD = ((MS-MSD)/(MS+MSD/2))*100

Calibration NFG June 2008 PCB criteria used for validation unless otherwise noted.

%RSD C1s 20% Linear 0.99

Initial Calibration Calculation Check

Date	3/20/14	Column	2
Instrument	ECD 4	Reported Average CF	6.80E+05
Compound	1260 Peak 1	Calculated Average CF	689620.3333
Column	1	Reported RSD	8.1933
Reported Average CF	1.41E+06	Calculated RSD	8.6306
Calculated Average CF	1456000.0000		
Reported RSD	8.8100		
Calculated RSD	9.4802		
	(RRI-1)/(RRI)*100		(RRF-1)/(RRF)*100
RRF1	1.65E+06	RRF1	7.78E+05
RRF2	1.52E+06	RRF2	7.16E+05
RRF3	1.35E+06	RRF3	6.40E+05
RRF4	1.37E+06	RRF4	6.62E+05
RRF5	1.42E+06	RRF5	6.13E+05
SLM	7253000	SLM	1448100
	(Sum(N-1))^2		(Sum(N-1))^2
	135945.7612		58662.48.47
	(Sum(N-1))^2/Average		(Sum(N-1))^2/Average
	0.094801786		0.096106294
	N		N
	5		5
	N-1		N-1
	4		4
Reported Amount	1310000.00	Reported Amount	660000.00
Calculated Amount	136070.400	Calculated Amount	663027.360
Compound Area (A1)	6.75E+07	Compound Area	3.30E+07
Compound Conc (C1)	50	Compound Conc	50

Continuing Calibration Calculation Check NFG +/- 1.5% Diff CFs

Date	3/18/14	Column	2
Time	0026	Reported Amount	44.31
Instrument	ECD 9	Calculated Amount	47.44
Compound	1260 Peak 1		
Column	1		
Reported Amount	44.31		
Calculated Amount	44.519		
Compound Area (A1)	6.16E+07		
Compound Conc (C1)	50		
(A1)/(RRF Peak 1)	1.47E+06		
Peak 1	44.506		
Peak 2	45.361		

Peak 3	46.616	45.521
Peak 4	47.617	45.814
Peak 5	48.445	45.152
Avg Am 1260	45.472	45.5416
Rpt Am 1260	45.5	45.9
Exptd Am 1260	50	50
Rpt %ID	9.1	9.1
Calc %ID	9.1%	8.1%

$$\% \text{Difference for \%ID} = ((\text{ICAI} - \text{CCV}) / (\text{ICAI})) * 100$$

Surrogate Calculation Check Lab limits used for validation unless otherwise noted
N3 G30 - 10%

SAMPLE# N3 Enter Conc

STIRR	AMOUNT FOUND	AMOUNT SPIKED	%R	FORM 2
FLX 1	29.794	40	74.5	74.5
FLX 2	32.9	30	82.3	82.3
DCB 1	31.781	30	79.3	79.3
DCB 2	31.872	40	79.7	79.7

Quantitation Calculations Check

Sample Lab ID Compound Final Result mg/Kg Instrument				Sample Lab ID Compound Final Result mg/Kg Instrument			
Beem SN-165F 14B0517-03 PCB 1260 7.6 ECD 4				Beem SN-155F 14B0517-02 PCB 1254 9.1 ECD 4			
Column	Col 1	Col 2		Column	Col 1	Col 2	
Peak 1	0.00E+00	79152153	116.7606	Peak 1	14037552	36.9524	23997905
CF	1.41E+06	6.80E+05		CF	5.51E+05	2.70E+05	
Peak 2	0.00E+00	0	0.0000	Peak 2	16551959	10.4089	12951676
CF	1.59E+06	8.49E+05		CF	1.28E+06	5.44E+05	
Peak 3	9.82E+07	70615450	107.0948	Peak 3	30565282	35.7280	22546940
CF	9.05E+05	6.56E+05		CF	8.56E+05	8.13E+05	
Peak 4	1.17E+08	63186337	170.7701	Peak 4	0	0.0000	0
CF	1.01E+06	1.12E+05		CF	4.25E+05	4.24E+05	
Peak 5	2.77E+08	0.00E+00	0.0000	Peak 5	0	0.0000	0
CF	2.14E+06	1.69E+06		CF	1.54E+06	9.87E+05	
Avg Conc mg/L	116.7708	Avg Conc mg/L	116.9752	Avg Conc mg/L	34.3631	Avg Conc mg/L	40.5435
Extract Vol g	10.100	Extract Vol g	10.100	Extract Vol g	10.000	Extract Vol g	10.000
Final Vol mL	10	Final Vol mL	10	Final Vol mL	10	Final Vol mL	10
DF	50	DF	50	DF	200	DF	200
Conversion	0.001	Conversion	0.001	Conversion	0.001	Conversion	0.001
%Solids	0.764	%Solids	0.764	%Solids	0.751	%Solids	0.753
Final Conc mg/Kg	7.566	Final Conc mg/Kg	7.457	Final Conc mg/Kg	9.127	Final Conc mg/Kg	10.774

Sample Lab ID Compound Final Result mg/Kg Instrument				Sample Lab ID Compound Final Result mg/Kg Instrument			
Beem SN-175F 14B0517 PCB 1248 1.2 ECD 4				Beem SN-155F 14B0517-02 PCB 1254 9.1 ECD 4			
Column	Col 1	Col 2		Column	Col 1	Col 2	
Peak 1	0	0	0.0000	Peak 1	0	0	0.0000
CF	3.93E+05	2.46E+05		CF	3.93E+05	2.46E+05	
Peak 2	23686148	9472649	11.8827	Peak 2	23686148	9472649	11.8827
CF	6.27E+05	2.97E+05		CF	6.27E+05	2.97E+05	
Peak 3	5823389	10671706	17.2794	Peak 3	5823389	10671706	17.2794
CF	4.70E+05	3.91E+05		CF	4.70E+05	3.91E+05	
Peak 4	5550617	13639906	11.1413	Peak 4	5550617	13639906	11.1413
CF	6.53E+05	6.38E+05		CF	6.53E+05	6.38E+05	
Peak 5	11171615	0	0.0000	Peak 5	11171615	0	0.0000
CF	6.57E+05	5.18E+05		CF	6.57E+05	5.18E+05	
Avg Conc mg/L	37.2161	Avg Conc mg/L	38.1613	Avg Conc mg/L	34.3631	Avg Conc mg/L	40.5435
Extract Vol g	10.100	Extract Vol g	10.100	Extract Vol g	10.000	Extract Vol g	10.000
Final Vol mL	10	Final Vol mL	10	Final Vol mL	10	Final Vol mL	10
DF	25	DF	25	DF	200	DF	200
Conversion	0.001	Conversion	0.001	Conversion	0.001	Conversion	0.001
%Solids	0.738	%Solids	0.738	%Solids	0.751	%Solids	0.753
Final Conc mg/Kg	1.248	Final Conc mg/Kg	1.616	Final Conc mg/Kg	9.127	Final Conc mg/Kg	10.774

Compound	Col 1	Col 2	%D Rptd	%D Calc
Beem SN-165F PCB 1260	7.566	7.4565	0.9	1.5%
Beem SN-155F PCB 1254	9.127	10.7154	18.6	14.8%
Beem SN-175F PCB 1248	1.248	1.6196	22.3	23.6%

1 - FORM I ANALYSIS DATA SHEET

64

12

N. Footer Conc.

Laboratory: Con-Test Analytical Laboratory SDG: 14B0517
 Client: WSP Project: 5140 Site - Yorkville, NY
 Matrix: Soil Laboratory ID: 14B0517-01 File ID: D0220056.D
 Sampled: 02/19/14 14:00 Prepared: 02/20/14 11:28 Analyzed: 02/20/14 23:44
 Solids: 90.60 Preparation: SW-846 3546 Dilution: 5
 Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.033	0.11	
11104-28-2	Aroclor-1221		0.11	0.11	
11141-16-5	Aroclor-1232		0.066	0.11	
53469-21-9	Aroclor-1242		0.055	0.11	
12672-29-6	Aroclor-1248		0.062	0.11	
11097-69-1	Aroclor-1254		0.046	0.11	
11096-82-5	Aroclor-1260 [2C]	0.45	0.051	0.11	
37324-23-5	Aroclor-1262		0.044	0.11	
11100-14-4	Aroclor-1268		0.064	0.11	

* Values outside of QC limits

1 - FORM I

ANALYSIS DATA SHEET

67

Berm 5N-155E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0517
 Client: WSP Project: 5140 Site - Yorkville, NY
 Matrix: Soil Laboratory ID: 14B0517-02 File ID: D0220075.D
 Sampled: 02/19/14 14:40 Prepared: 02/20/14 11:28 Analyzed: 02/21/14 16:02
 Solids: 75.30 Preparation: SW-846 3546 Dilution: 200
 Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		1.6	5.3	
11104-28-2	Aroclor-1221		5.2	5.3	
11141-16-5	Aroclor-1232		3.3	5.3	
53469-21-9	Aroclor-1242		2.7	5.3	
12672-29-6	Aroclor-1248		3.1	5.3	
11097-69-1	Aroclor-1254	9.1	2.3	5.3	
11096-82-5	Aroclor-1260	26	2.5	5.3	
37324-23-5	Aroclor-1262		2.2	5.3	
11100-14-4	Aroclor-1268		3.2	5.3	

* Values outside of QC limits

1 - FORM I

ANALYSIS DATA SHEET

76

Berm 5N-165E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0517
 Client: WSP Project: 5140 Site - Yorkville, NY
 Matrix: Soil Laboratory ID: 14B0517-03 File ID: D0220076.D
 Sampled: 02/19/14 14:45 Prepared: 02/20/14 11:28 Analyzed: 02/21/14 16:14
 Solids: 76.40 Preparation: SW-846 3546 Dilution: 50
 Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.40	1.3	
11104-28-2	Aroclor-1221		1.3	1.3	
11141-16-5	Aroclor-1232		0.80	1.3	
53469-21-9	Aroclor-1242		0.66	1.3	
12672-29-6	Aroclor-1248		0.75	1.3	
11097-69-1	Aroclor-1254 [2C]	2.9	0.56	1.3	
11096-82-5	Aroclor-1260	7.6	0.62	1.3	
37324-23-5	Aroclor-1262		0.53	1.3	
11100-14-4	Aroclor-1268		0.78	1.3	

* Values outside of QC limits

1 - FORM I

ANALYSIS DATA SHEET

85

Berm 5N-175E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0517
 Client: WSP Project: 5140 Site - Yorkville, NY
 Matrix: Soil Laboratory ID: 14B0517-04 File ID: D0220077.D
 Sampled: 02/19/14 14:50 Prepared: 02/20/14 11:28 Analyzed: 02/21/14 16:27
 Solids: 73.80 Preparation: SW-846 3546 Dilution: 25
 Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.21	0.67	
11104-28-2	Aroclor-1221		0.66	0.67	
11141-16-5	Aroclor-1232		0.42	0.67	
53469-21-9	Aroclor-1242		0.34	0.67	
12672-29-6	Aroclor-1248	1.2	0.39	0.67	
11097-69-1	Aroclor-1254 [2C]	2.2 T	0.29	0.67	
11096-82-5	Aroclor-1260 [2C]	5.4	0.32	0.67	
37324-23-5	Aroclor-1262		0.28	0.67	
11100-14-4	Aroclor-1268		0.40	0.67	

* Values outside of QC limits

1 - FORM I

ANALYSIS DATA SHEET

98

Berm 5N-185E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0517
 Client: WSP Project: 5140 Site - Yorkville, NY
 Matrix: Soil Laboratory ID: 14B0517-05 File ID: D0220078.D
 Sampled: 02/19/14 14:55 Prepared: 02/20/14 11:28 Analyzed: 02/21/14 16:40
 Solids: 79.10 Preparation: SW-846 3546 Dilution: 100
 Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.76	2.5	
11104-28-2	Aroclor-1221		2.4	2.5	
11141-16-5	Aroclor-1232		1.5	2.5	
53469-21-9	Aroclor-1242		1.3	2.5	
12672-29-6	Aroclor-1248		1.4	2.5	
11097-69-1	Aroclor-1254 [2C]	6.0	1.1	2.5	
11096-82-5	Aroclor-1260	16	1.2	2.5	
37324-23-5	Aroclor-1262		1.0	2.5	
11100-14-4	Aroclor-1268		1.5	2.5	

* Values outside of QC limits

1 - FORM I ANALYSIS DATA SHEET

107

Berm 5N-195E

Laboratory:	Con-Test Analytical Laboratory	SDG:	14B0517
Client:	WSP	Project:	5140 Site - Yorkville, NY
Matrix:	Soil	Laboratory ID:	14B0517-06
		File ID	D0220079.D
Sampled:	02/19/14 15:00	Prepared:	02/20/14 11:28
		Analyzed:	02/21/14 16:53
Solids:	80.90	Preparation:	SW-846 3546
		Dilution:	500
Batch:	B090653	Sequence:	S005890
		Calibration:	1400041
		Instrument:	ECD4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		3.7	12	
11104-28-2	Aroclor-1221		12	12	
11141-16-5	Aroclor-1232		7.4	12	
53469-21-9	Aroclor-1242		6.1	12	
12672-29-6	Aroclor-1248		7.0	12	
11097-69-1	Aroclor-1254 [2C]	18	5.2	12	
11096-82-5	Aroclor-1260 [2C]	56	5.8	12	
37324-23-5	Aroclor-1262		4.9	12	
11100-14-4	Aroclor-1268		7.2	12	

* Values outside of QC limits

14B0517

1 - FORM I ANALYSIS DATA SHEET

116

Berm 5N-205E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0517
 Client: WSP Project: 5140 Site - Yorkville, NY
 Matrix: Soil Laboratory ID: 14B0517-07 File ID: D0220080.D
 Sampled: 02/19/14 15:05 Prepared: 02/20/14 11:28 Analyzed: 02/21/14 17:06
 Solids: 69.40 Preparation: SW-846 3546 Dilution: 25
 Batch: B090653 Sequence: S005890 Calibration: 14D0041 Instrument: ECD4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.22	0.72	
11104-28-2	Aroclor-1221		0.71	0.72	
11141-16-5	Aroclor-1232		0.45	0.72	
53469-21-9	Aroclor-1242		0.37	0.72	
12672-29-6	Aroclor-1248		0.42	0.72	
11097-69-1	Aroclor-1254 (2C)	1.2	0.31	0.72	
11096-82-5	Aroclor-1260	3.3	0.35	0.72	
37324-23-5	Aroclor-1262		0.30	0.72	
11100-14-4	Aroclor-1268		0.43	0.72	

* Values outside of QC limits

140214
140214

1 - FORM I ANALYSIS DATA SHEET

125

Berm 10N-205E

Laboratory:	Con-Test Analytical Laboratory	SDG:	14B0517
Client:	WSP	Project:	5140 Site - Yorkville, NY
Matrix:	Soil	Laboratory ID:	14B0517-08
		File ID:	D0220081.D
Sampled:	02/19/14 15:10	Prepared:	02/20/14 11:28
		Analyzed:	02/21/14 17:19
Solids:	70.10	Preparation:	SW-846 3546
		Dilution:	25
Batch:	B090653	Sequence:	S005890
		Calibration:	1400041
		Instrument:	ECD4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.22	0.70	
11104-28-2	Aroclor-1221		0.69	0.70	
11141-16-5	Aroclor-1232		0.43	0.70	
53469-21-9	Aroclor-1242		0.36	0.70	
12672-29-6	Aroclor-1248		0.41	0.70	
11097-69-1	Aroclor-1254	2.0 J	0.30	0.70	
11096-82-5	Aroclor-1260 [2C]	2.8	0.34	0.70	
37324-23-5	Aroclor-1262		0.29	0.70	
11100-14-4	Aroclor-1268		0.42	0.70	

* Values outside of QC limits

14B0517



ECT.CON INC.

Environmental and Computer
Technology Consultants

Support Documentation

Laboratory Case Narrative

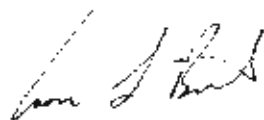
February 24, 2014

Dave Bouchard
WSP
5 Sullivan Street
Cazenovia, NY 13035

Project Location: 5140 Commercial Dr, Yorville, NY
Client Job Number:
Project Number: E0032927.000/05
Laboratory Work Order Number: 1480517

Enclosed are results of analyses for samples received by the laboratory on February 20, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit".

Aaron L. Benoit
Project Manager

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

WSP

REPORT DATE 2/24/2014

5 Sullivan Street

Cazenovia, NY 13035

PURCHASE ORDER NUMBER

ATTN: Dave Bruchard

PROJECT NUMBER: E0032927.000-05

ANALYTICAL SUMMARY

WORK ORDER NUMBER 14B0517

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

PROJECT LOCATION 5140 Commercial Dr, Yorkville, NY

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
N. Footer Conc	14B0517-01	Soil		SM 2540G SW-846 1030 SW-846 1311 SW-846 6010C SW-846 7470A SW-846 8081B SW-846 8082A SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9045C	
Berm 5N-155E	14B0517-02	Soil		SM 2540G SW-846 8082A	
Berm 5N-165E	14B0517-03	Soil		SM 2540G SW-846 8082A	
Berm 5N-175E	14B0517-04	Soil		SM 2540G SW-846 8082A	
Berm 5N-185E	14B0517-05	Soil		SM 2540G SW-846 8082A	
Berm 5N-195E	14B0517-06	Soil		SM 2540G SW-846 8082A	
Berm 5N-205E	14B0517-07	Soil		SM 2540G SW-846 8082A	
Berm 10N-205E	14B0517-08	Soil		SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

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

SW-846 8082A

Qualifications:

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

Analyte & Sample(s) Qualified:

Aroclor-1016, Aroclor-1016 [2C], Aroclor-1260, Aroclor-1260 [2C]
B090657-MS1, B090653-MSD1

The surrogate recovery for this sample is not available due to sample dilution below the surrogate recovery limit required from high analyte concentration and/or matrix interferences.

Analyte & Sample(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]
14B0517-02[Bern SN-155E], 14B0517-03[Bern SN-165E], 14B0517-05[Bern SN-185E], 14B0517-06[Bern SN-195E]

SW-846 8151A

Qualifications:

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Sample(s) Qualified:

2,4,5-TP (Silvex), 2,4,5-TP (Silvex) [2C], 2,4-D
B090681-BS1, B090683-MS1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Sample(s) Qualified:

2,4,5-TP (Silvex), 2,4,5-TP (Silvex) [2C]
14B0517-01[N. Foster Conc.]

SW-846 8260C

Qualifications:

Matrix spike recovery is outside of control limits. Data validation is not affected since sample result is "not detected" and recovery bias is on the high side for this compound.

Analyte & Sample(s) Qualified:

1,1-Dichloroethylene, Trichloroethylene
B090687-MS1

Laboratory fortified blank duplicate RPI is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Sample(s) Qualified:

2-Butanone (MEK)
14B0517-01[N. Foster Conc.], B090687-R1.K1, B090687-BS1, B090687-BSD1, B090687-MS1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Sample(s) Qualified:

2-Butanone (MEK)
B090687-BS1, B090687-BSD1, B090687-MS1

SW-846 8270D

Qualifications:

38 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-8405 * TEL. 413/525-2332

One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

Analyte & Sample(s) Qualified:

2,4,6-Trichlorophenol

14B0517-01[N, Foster Conc.], B090691-M51

SW-846 9045C

Qualifications:

Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.

Analyte & Sample(s) Qualified:

pH

14B0517-01[N, Foster Conc.]

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

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



Darin J. Damborgian
Laboratory Manager

FLAG/QUALIFIER SUMMARY

•	QC result is outside of established limits
†	Wide recovery limits established for difficult compound
‡	Wide RPD limits established for difficult compound.
⌵	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section
H-01	Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.
MS-14	Matrix spike recovery is outside of control limits. Data validation is not affected since sample result is "not detected" and recovery bias is on the high side for this compound
MS-21	Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences
S-07	One associated surrogate standard recovery is outside of control limits but the others are within limits. All recoveries are > 10%.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound

Chain of Custody



803791119223

Ship (P-U) date:
Wed 2/19/2014 4:45 pm
CA7 US



Delivered
Signature Required

Actual delivery
Thur 2/20/2014 9:30 am
PA US

Travel History

Date/Time	Activity	Location
- 2/20/2014 - Thursday		
9:30 am	Delivered	PA
8:17 am	On FedEx vehicle for delivery	AMERICAN LUGGAGE CO
7:11 am	Arrived FedEx facility	AMERICAN LUGGAGE CO
12:59 am	Departed FedEx location	PHILADELPHIA
- 2/19/2014 - Wednesday		
11:07 pm	Arrived at FedEx location	NEWARK NJ
7:25 pm	Left FedEx origin facility	ELIZABETH NJ
4:45 pm	Picked up	ELIZABETH NJ
		Local Scan Time

Shipment Facts

Tracking number	803791119223	Service	FedEx Priority Overnight
Weight	32 lbs	Delivered To	Reception/Trunk Desk
Total pieces	1	Total shipment weight	32 lbs - 14.5 kg
Shipper reference	1-0002927000105	Packaging	Your Packaging
Special handling section	Online Workday		

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Page 1 of 2

Sample Receipt Checklist



CLIENT NAME: WSP RECEIVED BY: PS DATE: 2-20-11

1) Was the chain(s) of custody relinquished and signed? ☒ Yes ☐ No ☐ No CoC Included

2) Does the chain agree with the samples?

☒ Yes ☐ No

If not, explain:

3) Are all the samples in good condition?

☒ Yes ☐ No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? ☒ Yes ☐ No ☐ N/A

Temperature °C by Temp blank 20 Temperature °C by Temp gun _____

5) Are there Dissolved samples for the lab to filter? ☐ Yes ☒ No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? ☒ Yes ☐ No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

log in

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No ☒ N/A

9) Do all samples have the proper Base pH: Yes No ☒ N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No ☒ N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	<u>10</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	<u>1</u>
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Doc# 277

Rev. 4 August 2013

Page 2 of 2

Log-In Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False)		Comment
	T/F/NA		
1) The cooler's custody seal, if present, is intact.	NA		
2) The cooler or samples do not appear to have been compromised or tampered with.	T		
3) Samples were received on ice.	T		
4) Cooler Temperature is acceptable.	T		
5) Cooler Temperature is recorded.	T		
6) COC is filled out in ink and legible.	T		
7) COC is filled out with all pertinent information.	T		
8) Field Sampler's name present on COC.	T		
9) There are no discrepancies between the sample IDs on the container and the COC.	T		
10) Samples are received within Holding Time.	T		
11) Sample containers have legible labels.	T		
12) Containers are not broken or leaking.	T		
13) Air Cassettes are not broken/open.	NA		
14) Sample collection date/times are provided.	T		
15) Appropriate sample containers are used.	T		
16) Proper collection media used.	T		
17) No headspace sample bottles are completely filled.	NA		
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T		
19) Trip blanks provided if applicable.	NA		
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA		
21) Samples do not require splitting or compositing.	T		

Who notified of False statements?

Doc #277 Rev. 4 August 2013

Log-In Technician Initials:

PB

Date/Time:

Date/Time: 2-20-14

9:38

Worksheets

PERCENT SOLIDS

Preservative - Cool < 4C
Hold Time - 7 days

Sample Date	Sample ID	Laboratory ID	Matrix	Preservative	Days to Analysis	Date Analyzed	Dish Wgt	Sample Mass Wet	Sample Mass Dry	Calcd %S	Rptd %S
1 02/19/14	N. Footer Conc.	14B0517-01	Solid	Cool <4C	1	2/20/14	1.021	11.914	10.885	90.6	90.6
2 02/19/14	Berm 5N-155E	14B0517-02	Solid	Cool <4C	1	2/20/14	1.017	9.762	7.603	75.3	75.3
3 02/19/14	Berm 5N-165E	14B0517-03	Solid	Cool <4C	1	2/20/14	1.031	9.119	7.214	76.4	76.4
4 02/19/14	Berm 5N-175E	14B0517-04	Solid	Cool <4C	1	2/20/14	1.025	11.691	8.893	73.8	73.8
5 02/19/14	Berm 5N-185E	14B0517-05	Solid	Cool <4C	1	2/20/14	1.021	13.513	10.904	79.1	79.1
6 02/19/14	Berm 5N-195E	14B0517-06	Solid	Cool <4C	1	2/20/14	1.037	14.253	11.724	80.9	80.9
7 02/19/14	Berm 5N-205E	14B0517-07	Solid	Cool <4C	1	2/20/14	1.041	13.695	9.825	69.4	69.4
8 02/19/14	Berm 10N-205E	14B0517-08	Solid	Cool <4C	1	2/20/14	1.039	16.754	12.063	70.1	70.1

N. Footer Conc.

Sample 90.6
Dup 91.1
RPD -0.006
RPD Rptd
RPD $((LCS-LC(D))/((LCS-LCSD)/2)) * 100$

CON-TEST LABORATORY

PERCENT SOLIDS

analyst	TEMP IN: 104 °C		dish	dish & sample	time	date	sample	dried dish & sample	time	date	dried sample	% solid
	sample#											
	B090653											
MXG	14B0517-01		1.021 g	11.914 g	11:55	02/20/2014	10.8930	10.885 g	16:27	02/20/2014	9.8640	90.6
MXG	14B0517-02		1.017 g	9.762 g	11:56	02/20/2014	8.7450	7.603 g	16:27	02/20/2014	6.5860	75.3
MXG	14B0517-03		1.031 g	9.119 g	11:57	02/20/2014	8.0880	7.214 g	16:27	02/20/2014	6.1830	76.4
MXG	14B0517-04		1.025 g	11.691 g	11:58	02/20/2014	10.6660	8.893 g	16:27	02/20/2014	7.8680	73.8
MXG	14B0517-05		1.021 g	13.513 g	11:59	02/20/2014	12.4920	10.904 g	16:27	02/20/2014	9.8830	79.1
MXG	14B0517-06		1.037 g	14.253 g	12:00	02/20/2014	13.2160	11.724 g	16:28	02/20/2014	10.6870	80.9
MXG	14B0517-07		1.041 g	13.695 g	12:01	02/20/2014	12.6540	9.825 g	16:28	02/20/2014	8.7840	69.4
MXG	14B0517-08		1.039 g	16.754 g	12:02	02/20/2014	15.7150	12.063 g	16:28	02/20/2014	11.0240	70.1
MXG	DUP1 14B0517-01		1.024 g	12.600 g	12:03	02/20/2014	11.5760	11.569 g	16:28	02/20/2014	10.5450	91.1

2 - FORM II

SYSTEM MONITORING COMPOUND SUMMARY

SW-846 8082A

135

30

Laboratory: Con-Test Analytical Laboratory SDG: 14B0517
 Client: WSP Project: 5140 Site - Yorkville, NY
 Matrix: Soil Instrument: ECD4

	DOB 1 (30% - 150%)	DOB 2 (30% - 150%)	TCX 1 (30% - 150%)	TCX 2 (30% - 150%)
14B0517-01	79.5	79.7	74.5	82.3
14B0517-02	.	.	.	. <i>2:00 X</i>
14B0517-03	.	.	.	. <i>5:00 X</i>
14B0517-04	93.5	89.0	82.3	89.2
14B0517-05	.	.	.	. <i>1:00 X</i>
14B0517-06	.	.	.	. <i>5:00 X</i>
14B0517-07	86.9	87.8	80.0	87.7
14B0517-08	77.8	80.7	76.8	81.5
B090653-BLK1	94.4	94.8	83.0	89.7
B090653-BB1	84.6	84.4	73.4	80.1
B090653-BSD1	84.7	85.0	80.0	87.5
B090653-MS1	61.9	101	70.6	79.5
B090653-MSD1	65.9	112	73.8	83.4

Data Path : C:\msdchem\1\DATA\022014\
 Data File : D0220056.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Feb 2014 11:44 pm
 Operator : JMB
 Sample : 14B0517-0105X Inst : ECD 4
 Misc :
 ALS Vial : 56 Sample Multiplier: 1

Integration File signal 1: FRONT-1260.E
 Integration File signal 2: 1260-BACK.E
 Quant Time: Feb 21 07:54:01 2014
 Quant Method : C:\msdchem\1\METHODS\pcb methods\4-1260 021014.M
 DataAcq Meth: PCB01.M
 Quant Title : 1260/1016 02/03/14 12/05/13
 QLast Update : Mon Feb 03 15:03:28 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.177	2.656	541.5E6	373.2E6	29.794	32.900
Spiked Amount	20.000 Range	60 - 300	Recovery	= 148.97%	164.50%	
2) S Decachlor...	6.233	6.985	641.0E6	504.7E6	31.781	31.872
Spiked Amount	20.000 Range	60 - 300	Recovery	= 158.90%	159.36%	
Target Compounds						
3) L1 1016 {1}	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016 {2}	0.000	3.669	0	1555060	N.D.	2.782 #
5) L1 1016 {3}	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016 {4}	0.000	0.000	0	0	N.D.	N.D.
7) L1 1016 {5}	0.000	0.000	0	0	N.D.	N.D.
Sum 1016			0	1555060	N.D.	2.782
Average 1016					0.000	2.782
8) L7 1260 {1}	4.446	5.126	134.2E6	58015051	93.589	85.360
9) L7 1260 {2}	4.656	5.283	154.3E6	76278463	97.293	89.886
10) L7 1260 {3}	4.746	5.647	65700623	49715102	72.609	75.818
11) L7 1260 {4}	4.934	5.886	73468369	61412989	71.636	79.594
12) L7 1260 {5}	5.180	6.073	167.8E6	148.7E6	78.376	88.212
Sum 1260			595.5E6	394.1E6	413.503	418.870
Average 1260					82.701	83.774

(E)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

CHECKED BY:
 PETER GRAYSON/2 FEB 21 2014

Data Path : C:\msdchem\1\DATA\022014\
 Data File : D0220075.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2014 4:02 pm
 Operator : JMB
 Sample : 14B0517-02@200X Inst : ECD 4
 Misc :
 ALS Vial : 75 Sample Multiplier: 1

Integration File signal 1: 1254-F.E
 Integration File signal 2: 1254-B.E
 Quant Time: Feb 24 08:24:35 2014
 Quant Method : C:\msdchem\1\METHODS\pcb methods\4-1254-021014.M
 DataAcq Meth:PCB01.M
 Quant Title : 1254 02/03/13 09/17/13
 QLast Update : Mon Feb 10 20:04:08 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.176	2.655	17716683	11498755	0.975	1.014
Spiked Amount	200.000	Range	60 - 300	Recovery	0.49%#	0.51%#
2) S Decachlor...	6.234	6.986	25135646	27966450	1.246	1.766 #
Spiked Amount	200.000	Range	60 - 300	Recovery	0.62%#	0.88%#
Target Compounds						
3) L6 1254{1}	3.629	4.450	24037562	23993905	36.954	51.109 #
4) L6 1254{2}	4.101	4.595	36581939	22953676	30.403	42.180 #
5) L6 1254{3}	4.309	4.961	30565282	22546940	35.726	27.746
6) L6 1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L6 1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254			91184783	69494520	103.083	121.034
Average 1254					34.361	40.345

CHECKED BY:
 TARRISA CAGAN

FEB 24 2014

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

54/cew

Data Path : C:\msdchem\1\DATA\022014\
 Data File : D0220076.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2014 4:14 pm
 Operator : JMB
 Sample : 1480517-03@50X Inst : ECD 4
 Misc :
 ALS Vial : 76 Sample Multiplier: 1

Integration File signal 1: FRONT-1260.E
 Integration File signal 2: 1260-BACK.E
 Quant Time: Feb 24 08:45:14 2014
 Quant Method : C:\msdchem\1\METHODS\pcb methods\4-1260-021014.M
 DataAcq Meth:PCB01.M
 Quant Title : 1260/1016 02/03/14 12/05/13
 QLast Update : Mon Feb 10 19:59:07 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) S Tetrachlo...	2.177	2.656	54241900	36007002	2.984	3.174
Spiked Amount	20.000	Range	60 - 300	Recovery	14.92%#	15.87%#
2) S Decachlor...	6.234	6.985	66067946	57673552	3.276	3.642
Spiked Amount	20.000	Range	60 - 300	Recovery	16.38%#	18.21%#
Target Compounds						
3) L1 1016 {1}	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016 {2}	2.999	3.669	6716798	5243054	7.562	9.380
5) L1 1016 {3}	3.101	0.000	1771509	0	2.848	N.D. #
6) L1 1016 {4}	3.128	0.000	1762657	0	4.491	N.D. #
7) L1 1016 {5}	3.364	4.123	10488062	4585573	21.955	15.743 #
Sum 1016			20739026	9828628	36.876	25.124
Average 1016					9.219	12.562
8) L7 1260 {1}	0.000	5.116	0	79362153	N.D. d	116.769 #
9) L7 1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7 1260 {3}	4.746	5.646	98211514	70615450	108.538	107.692
11) L7 1260 {4}	4.935	5.885	117.3E6	93186337	114.347	120.774
12) L7 1260 {5}	5.179	0.000	272.9E6	0	127.500	N.D. d#
Sum 1260			488.4E6	243.2E6	350.385	345.235
Average 1260					116.795	115.078

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : C:\msdchem\1\DATA\022014\
 Data File : D0220077.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2014 4:27 pm
 Operator : JMB
 Sample : 14B0517-D4W25X Inst : ECD 4
 Misc :
 ALS Vial : 77 Sample Multiplier: 1

Integration File signal 1: 1248-F.E
 Integration File signal 2: 1248-back.E
 Quant Time: Feb 24 08:48:40 2014
 Quant Method : C:\msdchem\1\METHODS\pcb methods\4-1248-021014.M
 DataAcq Meth:PCB01.M
 Quant Title : 1248 02/03/14 08/29/13
 QLast Update : Mon Feb 10 20:06:10 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) S Tetrachlo...	2.176	2.656	119.7E6	80922065	6.587	7.133
Spiked Amount	200.000	Range	60 - 300	Recovery	=	3.29%# 3.57%#
2) S Decachlor...	6.233	6.985	150.9E6	112.7E6	7.480	7.117
Spiked Amount	200.000	Range	60 - 300	Recovery	=	3.74%# 3.56%#
Target Compounds						
3) L5 1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L5 1248{2}	3.364	3.919	23686448	9472649	37.810	31.883
5) L5 1248{3}	3.422	4.125	15823389	10671706	33.670	27.277
6) L5 1248{4}	3.660	4.416	19570637	13639908	29.952	31.144
7) L5 1248{5}	3.677	0.000	31171618	0	47.429	N.D. d#
Sum 1248			90252091	33784263	148.862	90.305
Average 1248					37.216	30.102

{F}=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

CHECKED BY:
 MARISA CAGAW
 FEB 24 2014

48/54/60

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

N. Footer Conc. 264

41

Lab Sample ID: 14B0517-01

Date(s) Analyzed: 02/20/2014 02/20/2014

Instrument ID (1): ECD4

Instrument ID (2): ECD4

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.44	
	2	0.00	0.00	0.00	0.45	1.6

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Bern 5N-155E 265

42

Lab Sample ID: 14B0517-02

Date(s) Analyzed: 02/21/2014 02/21/2014

Instrument ID (1): ECD4

Instrument ID (2): ECD4

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	9.1	
	2	0.00	0.00	0.00	11	18.6
Aroclor-1260	1	0.00	0.00	0.00	26	
	2	0.00	0.00	0.00	26	0.8

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Berm 5N-165E 266

Lab Sample ID: 14B0517-03

Date(s) Analyzed: 02/21/2014 02/21/2014

Instrument ID (1): ECD4

Instrument ID (2): ECD4

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	2.5	
	2	0.00	0.00	0.00	2.9	16.4
Aroclor-1260	1	0.00	0.00	0.00	7.6	
	2	0.00	0.00	0.00	7.5	0.9

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Born 5N-175E 267

114

Lab Sample ID: 14B0517-04

Date(s) Analyzed: 02/21/2014 02/21/2014

Instrument ID (1): ECD4

Instrument ID (2): ECD4

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	1.2	
	2	0.00	0.00	0.00	1.0	22.2
Aroclor-1254	1	0.00	0.00	0.00	1.8	
	2	0.00	0.00	0.00	2.2	17.8
Aroclor-1260	1	0.00	0.00	0.00	5.3	
	2	0.00	0.00	0.00	5.4	0.9

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Bern 5N-185E

268

Lab Sample ID: 14B0517-05

Date(s) Analyzed: 02/21/2014 02/21/2014

Instrument ID (1): ECD4

Instrument ID (2): ECD4

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	5.7	
	2	0.00	0.00	0.00	6.0	5.0
Aroclor-1260	1	0.00	0.00	0.00	15	
	2	0.00	0.00	0.00	15	0.6

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Born 5N-195E 269

46

Lab Sample ID: 1460517-06

Date(s) Analyzed 02/21/2014 02/21/2014

Instrument ID (1): ECD4

Instrument ID (2): ECD4

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	16	
	2	0.00	0.00	0.00	18	8.7
Aroclor-1260	1	0.00	0.00	0.00	53	
	2	0.00	0.00	0.00	56	4.8

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Berm 5N-205E 270

Lab Sample ID: 14B0517-07

Date(s) Analyzed: 02/21/2014 02/21/2014

Instrument ID (1): ECD4

Instrument ID (2): ECD4

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	1.1	
	2	0.00	0.00	0.00	1.2	6.0
Aroclor-1260	1	0.00	0.00	0.00	3.3	
	2	0.00	0.00	0.00	3.2	2.5

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Bern 10N-205E 271

Lab Sample ID: 14B0517-08

Date(s) Analyzed 02/21/2014 02/21/2014

Instrument ID (1): ECD4

Instrument ID (2): ECD4

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	2.0	
	2	0.00	0.00	0.00	1.9	3.6
Aroclor-1260	1	0.00	0.00	0.00	2.6	
	2	0.00	0.00	0.00	2.8	6.3

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Berm 5N-155E

Laboratory: Con-Test Analytical Laboratory
 Client: WSP
 Matrix: Soil
 Batch: B090653
 % Solids: 75.30
 Initial/Final: 10.2 g / 10 mL
 Column: 1

Work Order: 14B0517
 Project: 5140 Site - Yorkville, NY
 Analysis: SW-846 8082A
 Preparation: SW-846 3546
 Laboratory ID: B090653-MS1
 Sample Lab ID: 14B0517-02

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016	0.260	ND	1.4	542	40 - 140
Aroclor-1260	0.260	26	26	-182	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	REC.
Aroclor-1016	0.255	1.6	621		30	40 - 140
Aroclor-1260	0.255	31	1730	17.4	30	40 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Berm 5N-155E

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0517
Client:	WSP	Project:	5140 Site - Yorkville, NY
Matrix:	Soil	Analysis:	SW-846 8082A
Batch:	B090653	Preparation:	SW-846 3546
% Solids:	75.30	Laboratory ID:	B090653-MS1
Initial/Final:	10.2 g / 10 mL	Sample Lab ID:	14B0517-02
Column:	2		

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	0.260	ND	1.4	546	40 - 140
Aroclor-1260 [2C]	0.260	26	25	349	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	REC.
Aroclor-1016 [2C]	0.255	1.6	621	*	30	40 - 140
Aroclor-1260 [2C]	0.255	28	810	*	11.3	30

**1 - FORM I
ANALYSIS DATA SHEET****Matrix Spike**

Laboratory: Con-Test Analytical Laboratory Work Order 14B0517
Client: WSP Project: 5140 Site - Yorkville, NY
Matrix: Soil Laboratory ID: B090653-MS1 File ID: D0220064.D
Sampled: Prepared: 02/20/14 11:28 Analyzed: 02/21/14 01:27
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	1.4	0.040	0.13	MS-21
11096-82-5	Aroclor-1260	26	0.062	0.13	MS-21

1 - FORM I
ANALYSIS DATA SHEET**Matrix Spike**

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0517
Client: WSP Project: 5140 Site - Yorkville, NY
Matrix: Soil Laboratory ID: B090653-MS1 File ID: D0220064.D
Sampled: Prepared: 02/20/14 11:28 Analyzed: 02/21/14 01:27
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090653 Sequence S005890 Calibration: 1400041 Instrument: ECD4
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	1.4	0.040	0.13	MS-21
11096-82-5	Aroclor-1260 [2C]	25	0.062	0.13	MS-21

Data Path : C:\msdchem\1\DATA\022014\
 Data File : D0220064.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2014 1:27 am
 Operator : JMH
 Sample : B090653-MS105X Inst : ECD 4
 Misc :
 ALS Vial : 64 Sample Multiplier: 1

Integration File signal 1: FRONT-1260.E
 Integration File signal 2: 1260-BACK.E
 Quant Time: Feb 21 07:54:57 2014
 Quant Method : C:\msdchem\1\METHODS\pcb methods\4-1260-021014.M
 DataAcq Meth:PCB01.M
 Quant Title : 1260/1016 02/03/14 12/05/13
 Qlast Update : Mon Feb 03 15:03:28 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) S Tetrachlo...	2.177	2.656	513.1E6	360.8E6	28.229	31.807
Spiked Amount	20.000 Range	60 - 300	Recovery	=	141.14%	159.04%
2) S Decachlor...	6.233	6.985	499.2E6	637.3E6	24.752	40.243 #
Spiked Amount	20.000 Range	60 - 300	Recovery	=	123.76%	201.22%
Target Compounds						
3) L1 1016 {1}	2.689	3.510	47153266	14966815	68.173	83.553
4) L1 1016 {2}	2.999	3.669	231.5E6	165.1E6	261.308	295.341
5) L1 1016 {3}	3.086	3.768	36629917	38317262	58.890	101.247 #
6) L1 1016 {4}	3.127	3.847	41617153	28319517	106.038	134.066 #
7) L1 1016 {5}	3.364	4.125	281.9E6	139.1E6	590.174	477.561
Sum 1016			638.8E6	385.8E6	1084.583	1091.768
Average 1016					216.917	218.354
8) L7 1260 {1}	4.446	5.116	6111.8E6	2530.1E6	4260.782	3722.673
9) L7 1260 {2}	4.655	5.283	7677.8E6	3205.5E6	4841.000	3777.297
10) L7 1260 {3}	4.746	5.647	2871.0E6	2113.2E6	3172.927	3222.730
11) L7 1260 {4}	4.933	5.886	3531.6E6	2516.2E6	3443.485	3261.165
12) L7 1260 {5}	5.178	6.073	8632.3E6	8523.6E6	4032.385	5056.390 #
Sum 1260			28824.5E6	18888.6E6	19750.579	19040.255
Average 1260					3950.116	3808.051

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

200X

1 - FORM I ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0517
 Client: WSP Project: 5140 Site - Yorkville, NY
 Matrix: Soil Laboratory ID: B090653-MSD1 File ID: D0220065.D
 Sampled: Prepared: 02/20/14 11:28 Analyzed: 02/21/14 01:40
 Solids: Preparation: SW-846 3546 Dilution:
 Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4
 Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	1.6	0.040	0.13	MS-21
11096-82-5	Aroclor-1260	31	0.061	0.13	MS-21

1 - FORM I

ANALYSIS DATA SHEET

319

55

Matrix Spike Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0517
 Client: WSP Project: 5140 Site - Yorkville, NY
 Matrix: Soil Laboratory ID: B090653-MSD1 File ID: D022D065.D
 Sampled: Prepared: 02/20/14 11:28 Analyzed: 02/21/14 01:40
 Solids: Preparation: SW-846 3546 Dilution:
 Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4
 Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	1.6	0.040	0.13	MS-21
11096-82-5	Aroclor-1260 [2C]	28	0.061	0.13	MS-21

3 - FORM III

138

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0517
Client:	WSP	Project:	5140 Site - Yorkville, NY
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B090653	Laboratory ID:	B090653-BS1
Column:	1	Initial/Final:	10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	0.200	0.14	70.6	40 - 140
Aroclor-1260	0.200	0.16	77.8	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	QC LIMITS		
				% RPD #	RPD	REC.
Aroclor-1016	0.200	0.15	77.5	9.25	30	40 - 140
Aroclor-1260	0.200	0.16	82.3	5.56	30	40 - 140

3 - FORM III

139

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0517
Client:	WSP	Project:	5140 Site - Yorkville, NY
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B090653	Laboratory ID:	B090653-BS1
Column:	2	Initial/Final:	10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	0.200	0.17	83.2	40 - 140
Aroclor-1260 [2C]	0.200	0.15	77.0	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	RPD	QC LIMITS REC.
Aroclor-1016 [2C]	0.200	0.18	88.1	5.72	30	40 - 140
Aroclor-1260 [2C]	0.200	0.16	82.0	6.33	30	40 - 140

1 - FORM I
ANALYSIS DATA SHEET
LCS

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0517
Client: WSP Project: 5140 Site - Yorkville, NY
Matrix: Soil Laboratory ID: B090653-BS1 File ID: D0220054.D
Sampled: Prepared: 02/20/14 11:28 Analyzed: 02/20/14 23:18
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.14	0.031	0.10	
11096-82-5	Aroclor-1260	0.16	0.048	0.10	

1 - FORM I
ANALYSIS DATA SHEET
LCS

289

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0517
Client: WSP Project: 5140 Site - Yorkville, NY
Matrix: Soil Laboratory ID: B090653-BS1 File ID: D0220054.D
Sampled: Prepared: 02/20/14 11:28 Analyzed: 02/20/14 23:18
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.17	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.15	0.048	0.10	

Data Path : C:\msdchem\1\DATA\022014\
 Data File : D0220054.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Feb 2014 11:18 pm
 Operator : JMB
 Sample : B093653-B5105X Inst : ECD 4
 Misc :
 ALS Vial : 54 Sample Multiplier: 1

Integration File signal 1: 1254-F.E
 Integration File signal 2: 1254-B.E
 Quant Time: Feb 21 14:37:23 2014
 Quant Method : C:\msdchem\1\METHODS\pcb methods\4-1260-021014.M
 DataAcq Meth: PCB01.M
 Quant Title : 1260/1016 02/03/14 12/05/13
 QLast Update : Mon Feb 03 15:03:28 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.178	2.657	533.6E6	363.4E6	29.359	32.035
Spiked Amount	20.000 Range	60 - 300	Recovery	=	146.80%	160.17%
2) S Decachlor...	6.234	6.985	682.2E6	534.9E6	33.825	33.775
Spiked Amount	20.000 Range	60 - 300	Recovery	=	169.13%	168.88%
Target Compounds						
3) L1 1016{1}	2.691	3.511	22400562	5990642	32.386	33.443
4) L1 1016{2}	2.999	3.669	25278830	18742160	28.535m	33.532m
5) L1 1016{3}	3.088	3.769	15887323	12018999	25.542	31.758m
6) L1 1016{4}	3.129	3.847	9692568	7079567	24.696	33.515 #
7) L1 1016{5}	3.364	4.125	14374281	9968445	30.090m	34.224
Sum 1016			87633565	53799812	141.250	166.472
Average 1016					28.250	33.294
8) L7 1260{1}	4.447	5.116	42622112	21085446	29.714	31.024
9) L7 1260{2}	4.658	5.283	47641740	25969242	30.039	30.602
10) L7 1260{3}	4.747	5.647	30481876	20517349	33.687	31.290
11) L7 1260{4}	4.935	5.887	29227210	23870860	28.498	30.938
12) L7 1260{5}	5.181	6.073	72197624	50821672	33.726	30.149
Sum 1260			222.2E6	142.3E6	155.663	154.002
Average 1260					31.133	30.800

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

CHECKED BY:
 PETER GRYSZCZAK FEB 21 2014

**1 - FORM I
ANALYSIS DATA SHEET****LCS Dup**

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0517
Client: WSP Project: 5140 Site - Yorkville, NY
Matrix: Soil Laboratory ID: B090653-BSD1 File ID: D0220055.D
Sampled: Prepared: 02/20/14 11:28 Analyzed: 02/20/14 23:31
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.15	0.031	0.10	
11096-82-5	Aroclor-1260	0.16	0.048	0.10	

62

303

1 - FORM I
ANALYSIS DATA SHEET

LCS Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0517
Client: WSP Project: 5140 Site - Yorkville, NY
Matrix: Soil Laboratory ID: B090653-BSD1 File ID: D0220055.D
Sampled: Prepared: 02/20/14 11:28 Analyzed: 02/20/14 23:31
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.18	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.16	0.048	0.10	

4 - FORM IV METHOD BLANK SUMMARY

140

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory

Work Order: 14B0517

Client: WSP

Project: 5140 Site - Yorkville, NY

Blank ID: B090653-BLK1

Batch: B090653

Prepared: 02/20/2014 11:28

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
Matrix Spike Dup	B090653-MSD1	D0220065.D	01:40
Matrix Spike	B090653-MS1	D0220064.D	01:27
LCS Dup	B090653-BSD1	D0220055.D	23:31
LCS	B090653-BS1	D0220054.D	23:18
Berm 10N-205E	14B0517-08	D0220081.D	17:19
Berm 5N-205E	14B0517-07	D0220080.D	17:06
Berm 5N-195E	14B0517-06	D0220079.D	16:53
Berm 5N-185E	14B0517-05	D0220078.D	16:40
Berm 5N-175E	14B0517-04	D0220077.D	16:27
Berm 5N-165E	14B0517-03	D0220076.D	16:14
Berm 5N-155E	14B0517-02	D0220075.D	16:02
N. Footer Conc.	14B0517-01	D0220056.D	23:44

1 - FORM I

ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory
 Client: WSP
 Matrix: Soil
 Sampled:
 Solids:
 Batch: B090653
 Column: 1

Project: 5140 Site - Yorkville, NY
 Laboratory ID: B090653-BLK1
 Prepared: 02/20/14 11:28
 Preparation: SW-846 3546
 Sequence: S005890
 Calibration: 1400041

Work Order: 14B0517
 File ID: D0220053 D
 Analyzed: 02/20/14 23:05
 Dilution:
 Instrument: ECD4

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0062	0.020	
11104-28-2	Aroclor-1221		0.020	0.020	
11141-16-5	Aroclor-1232		0.012	0.020	
53469-21-9	Aroclor-1242		0.010	0.020	
12672-29-6	Aroclor-1248		0.012	0.020	
11097-69-1	Aroclor-1254		0.0086	0.020	
11096-82-5	Aroclor-1260		0.0096	0.020	
37324-23-5	Aroclor-1262		0.0082	0.020	
11100-14-4	Aroclor-1268		0.012	0.020	

1 - FORM I

ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0517
 Client: WSP Project: 5140 Site - Yorkville, NY
 Matrix: Soil Laboratory ID: B090653-BLK1 File ID: D0220053.D
 Sampled: Prepared: 02/20/14 11:28 Analyzed: 02/20/14 23:05
 Solids: Preparation: SW-846 3546 Dilution:
 Batch: B090653 Sequence: S005890 Calibration: 1400041 Instrument: ECD4
 Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]		0.0062	0.020	
11104-28-2	Aroclor-1221 [2C]		0.020	0.020	
11141-16-5	Aroclor-1232 [2C]		0.012	0.020	
53469-21-9	Aroclor-1242 [2C]		0.010	0.020	
12672-29-6	Aroclor-1248 [2C]		0.012	0.020	
11097-69-1	Aroclor-1254 [2C]		0.0086	0.020	
11096-82-5	Aroclor-1260 [2C]		0.0096	0.020	
37324-23-5	Aroclor-1262 [2C]		0.0082	0.020	
11100-14-4	Aroclor-1268 [2C]		0.012	0.020	

PREPARATION BENCH SHEET

322

B090653

Con-Test Analytical Laboratory

Printed: 5/6/2014 11:58:35AM

Matrix: Soil

Prepared using: SV-GC - SW-846 3546

Surrogate used: 1402112

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Location	Client	Extraction Comments
14B0517-01	8082	02/20/14	10.3	10				Box #837	WSP	Report to 0.1 mg/kg
14B0517-02	8082	02/20/14	10	10				Box #837	WSP	Report to 0.1 mg/kg
14B0517-03	8082	02/20/14	10.1	10				Box #837	WSP	Report to 0.1 mg/kg
14B0517-04	8082	02/20/14	10.1	10				Box #837	WSP	Report to 0.1 mg/kg
14B0517-05	8082	02/20/14	10.3	10				Box #837	WSP	Report to 0.1 mg/kg
14B0517-06	8082	02/20/14	10.3	10				Box #837	WSP	Report to 0.1 mg/kg
14B0517-07	8082	02/20/14	10	10				Box #837	WSP	Report to 0.1 mg/kg, Wet
14B0517-08	8082	02/20/14	10.2	10				Box #837	WSP	Report to 0.1 mg/kg, Wet
14B0559-01	8082	02/20/14	10.16	10				Box #837	WSP	Report to 0.1 mg/kg, Wet
B090653-RTK1	QC	02/20/14	10	10				Box #837		
B090653-BS1	QC	02/20/14	10	10	1402138		1000			
B090653-BSD1	QC	02/20/14	10	10	1402138		1000			
B090653-MS1	QC	02/20/14	10.2	10	1402138	14B0517-02	1000			
B090653-MSD1	QC	02/20/14	10.4	10	1402138	14B0517-02	1000			

Spiking Witnessed By

Date

Preparation Reviewed By

Date

Extracts Received By

Date

Injection Log

C:\msdchem\1\DATA\ARCHIVE_2014 RUN DATES\022014\

Date	Filename	Lab ID	Sample Info
20 Feb 2014	8:03 am	D0220001.D	ISO
20 Feb 2014	8:16 am	D0220002.D	ISO
20 Feb 2014	8:29 am	D0220003.D	ISO
20 Feb 2014	8:42 am	D0220004.D	1260/1016 100
20 Feb 2014	8:55 am	D0220005.D	1254 100
20 Feb 2014	9:08 am	D0220006.D	1248 100
20 Feb 2014	9:21 am	D0220007.D	1242 100
20 Feb 2014	9:34 am	D0220008.D	1232/1268 100
20 Feb 2014	9:47 am	D0220009.D	1221/1262 100
20 Feb 2014	9:59 am	D0220010.D	ISO
20 Feb 2014	10:12 am	D0220011.D	B090511-BLK1@TBA
20 Feb 2014	10:25 am	D0220012.D	B090511-BS1@5X TBA
20 Feb 2014	10:38 am	D0220013.D	B090511-BSD1@5X TBA
20 Feb 2014	10:51 am	D0220014.D	14B0380-03@5X TBA
20 Feb 2014	11:04 am	D0220015.D	14B0380-10@5X TBA
20 Feb 2014	11:17 am	D0220016.D	14B0380-11@5X TBA
20 Feb 2014	11:30 am	D0220017.D	14B0406-03@5X TBA
20 Feb 2014	11:43 am	D0220018.D	14B0406-06@5X TBA
20 Feb 2014	11:56 am	D0220019.D	ISO
20 Feb 2014	12:09 pm	D0220020.D	1260/1016 50
20 Feb 2014	12:22 pm	D0220021.D	14B0370-01@4X
20 Feb 2014	12:35 pm	D0220022.D	14B0370-02@4X
20 Feb 2014	12:48 pm	D0220023.D	14B0370-03@4X
20 Feb 2014	1:01 pm	D0220024.D	14B0370-04@4X
20 Feb 2014	1:14 pm	D0220025.D	14B0370-05@4X
20 Feb 2014	1:27 pm	D0220026.D	14B0370-06@4X
20 Feb 2014	1:39 pm	D0220027.D	ISO
20 Feb 2014	1:52 pm	D0220028.D	ISO
20 Feb 2014	2:05 pm	D0220029.D	1260/1016 100
20 Feb 2014	2:18 pm	D0220030.D	B090487-BLK1@C TBA
20 Feb 2014	2:31 pm	D0220031.D	B090536-BLK1@C
20 Feb 2014	2:44 pm	D0220032.D	B090536-BS1@C
20 Feb 2014	2:57 pm	D0220033.D	B090536-BSD1@C
20 Feb 2014	3:10 pm	D0220034.D	B090487-BS1@C TBA
20 Feb 2014	3:23 pm	D0220035.D	B090487-BSD1@C TBA
20 Feb 2014	3:36 pm	D0220036.D	ISO
20 Feb 2014	3:49 pm	D0220037.D	1260/1016 50
20 Feb 2014	4:01 pm	D0220038.D	14B0361-01@4X
20 Feb 2014	4:14 pm	D0220039.D	14B0361-02@4X
20 Feb 2014	4:27 pm	D0220040.D	14B0422-02@4X
20 Feb 2014	4:40 pm	D0220041.D	14B0422-03@4X TBA
20 Feb 2014	4:53 pm	D0220042.D	14B0422-04@4X
20 Feb 2014	5:06 pm	D0220043.D	14B0422-05@4X
20 Feb 2014	5:19 pm	D0220044.D	14B0422-06@4X TBA
20 Feb 2014	5:32 pm	D0220045.D	14B0422-07@4X
20 Feb 2014	5:45 pm	D0220046.D	14B0390-01@4X
20 Feb 2014	6:03 pm	D0220047.D	14B0422-01@4X 3CU
20 Feb 2014	6:21 pm	D0220048.D	ISO
20 Feb 2014	6:39 pm	D0220049.D	ISO
20 Feb 2014	6:57 pm	D0220050.D	ISO
20 Feb 2014	7:15 pm	D0220051.D	1260/1016 100
20 Feb 2014	10:52 pm	D0220052.D	ISO
20 Feb 2014	11:05 pm	D0220053.D	B090653-BLK1
20 Feb 2014	11:18 pm	D0220054.D	B090653-BS1@5X
20 Feb 2014	11:31 pm	D0220055.D	B090653-BSD1@5X
20 Feb 2014	11:44 pm	D0220056.D	14B0517-01@5X
20 Feb 2014	11:57 pm	D0220057.D	14B0517-02@5X
21 Feb 2014	12:10 am	D0220058.D	14B0517-03@5X
21 Feb 2014	12:23 am	D0220059.D	14B0517-04@5X
21 Feb 2014	12:36 am	D0220060.D	14B0517-05@5X
21 Feb 2014	12:48 am	D0220061.D	14B0517-06@5X
21 Feb 2014	1:01 am	D0220062.D	14B0517-07@5X

Injection Log

C:\msdchem\1\DATA\ARCHIVE_2014 RUN DATES\022014\

Date		Filename	Lab ID	Sample Info
21 Feb 2014	1:14 am	D0220063.D	14B0517-08@5X	
21 Feb 2014	1:27 am	D0220064.D	B090653-MS1@5X	
21 Feb 2014	1:40 am	D0220065.D	B090653-MSD1@5X	
21 Feb 2014	1:53 am	D0220066.D	ISO	
21 Feb 2014	2:06 am	D0220067.D	1260/1016 50	
21 Feb 2014	8:28 am	D0220068.D	ISO	
21 Feb 2014	8:41 am	D0220069.D	ISO	
21 Feb 2014	8:54 am	D0220070.D	1260/1016 100	
21 Feb 2014	1:05 pm	D0220071.D	ISO	
21 Feb 2014	1:20 pm	D0220072.D	14B0422-01@4X 3CU RR	
21 Feb 2014	3:36 pm	D0220073.D	ISO	
21 Feb 2014	3:49 pm	D0220074.D	14B0422-01@80X 3CU RR	
21 Feb 2014	4:02 pm	D0220075.D	14B0517-02@200X	
21 Feb 2014	4:14 pm	D0220076.D	14B0517-03@50X	
21 Feb 2014	4:27 pm	D0220077.D	14B0517-04@25X	
21 Feb 2014	4:40 pm	D0220078.D	14B0517-05@100X	
21 Feb 2014	4:53 pm	D0220079.D	14B0517-06@500X	
21 Feb 2014	5:06 pm	D0220080.D	14B0517-07@25X	
21 Feb 2014	5:19 pm	D0220081.D	14B0517-08@25X	
21 Feb 2014	5:32 pm	D0220082.D	ISO	
21 Feb 2014	5:45 pm	D0220083.D	1260/1016 50	
21 Feb 2014	5:58 pm	D0220084.D	B090653-BLK1@TBA	
21 Feb 2014	6:11 pm	D0220085.D	B090653-BSD1@5X TBA	
21 Feb 2014	6:23 pm	D0220086.D	B090653-BSD1@5X TBA	
21 Feb 2014	6:36 pm	D0220087.D	14B0559-01@5X TBA	
21 Feb 2014	6:49 pm	D0220088.D	ISO	
21 Feb 2014	7:02 pm	D0220089.D	1260/1016 100	

Method Path : C:\msdchem\1\METHODS\pcb methods\
 Method File : 4-1260-020314C.M
 Title : 1260/1016 02/03/14 12/05/13
 Last Update : Mon Feb 03 15:03:20 2014
 Response Via : Initial Calibration

Calibration Files

=D005.D = 5 =D0203011.D
 10 =D0203012.D 20 =D0203013.D 50 =D0203014.D

Compound			5	10	20	50	Avg	%RSD			
1)	S	Tetrachloro-m...	1.750	1.777	1.792	1.753	1.877	1.886	1.818	E7	3.49
2)	S	Decachlorobip...	2.169	2.061	1.994	1.902	1.986	2.001	2.017	E7	4.06
3)	L1	1016 {1}		8.381	7.683	6.663	6.543	6.173	6.917	E5	13.30
4)	L1	1016 {2}		9.532	9.159	8.182	8.721	8.741	8.859	E5	5.14
5)	L1	1016 {3}		7.196	6.781	5.986	5.976	5.718	6.220	E5	10.02
6)	L1	1016 {4}		4.308	4.277	3.780	3.838	3.684	3.925	E5	7.45
7)	L1	1016 {5}		5.554	5.231	4.574	4.549	4.417	4.777	E5	10.36
8)	L7	1260 {1}		1.654	1.524	1.350	1.371	1.354	1.434	E6	8.85
9)	L7	1260 {2}		1.803	1.681	1.495	1.525	1.507	1.586	E6	8.02
10)	L7	1260 {3}		1.073	0.978	0.859	0.858	0.834	0.905	E6	10.92
11)	L7	1260 {4}		1.213	1.082	0.972	0.975	0.968	1.026	E6	10.14
12)	L7	1260 {5}		2.316	2.178	2.000	2.097	2.125	2.141	E6	4.87

Signal #2 Calibration Files

=D005.D = 5 =D0203011.D
 10 =D0203012.D 20 =D0203013.D 50 =D0203014.D

Compound			5	10	20	50	Avg		%RSD		
1)	S	Tetrachloro-m...	1.099	1.125	1.122	1.095	1.167	1.161	1.134	E7	2.83
2)	S	Decachlorobip...	1.719	1.636	1.590	1.464	1.539	1.567	1.584	E7	5.01
3)	L1	1016 {1}		1.994	1.913	1.790	1.774	1.648	1.791	E5	8.01
4)	L1	1016 {2}		5.579	5.463	5.177	5.819	5.731	5.589	E5	4.31
5)	L1	1016 {3}		4.835	3.976	3.569	3.563	3.384	3.785	E5	14.76
6)	L1	1016 {4}		2.083	2.211	2.094	2.138	2.066	2.112	E5	2.56
7)	L1	1016 {5}		3.199	3.105	2.861	2.861	2.722	2.913	E5	6.77
8)	L7	1260 {1}		7.777	7.156	6.600	6.615	6.333	6.797	E5	8.39
9)	L7	1260 {2}		1.001	0.937	0.798	0.805	0.776	0.849	E6	11.33
10)	L7	1260 {3}		7.405	7.068	6.279	6.341	6.139	6.557	E5	8.29
11)	L7	1260 {4}		8.499	8.150	7.428	7.527	7.354	7.716	E5	6.33
12)	L7	1260 {5}		1.799	1.728	1.608	1.676	1.667	1.686	E6	4.07

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method Path : C:\msdchem\1\METHODS\pcb methods\
 Method File : 4-1260-020314C.M
 Title : 1260/1016 02/03/14 12/05/13
 Last Update : Mon Feb 03 15:03:28 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
3	5	-1	0	C:\msdchem\1\DATA\020314A\D0203011.D
4	10	10	0	C:\msdchem\1\DATA\020314A\D0203012.D
5	20	20	0	C:\msdchem\1\DATA\020314A\D0203013.D
6	50	50	0	C:\msdchem\1\DATA\020314A\D0203014.D
7	100	100	0	C:\msdchem\1\DATA\020314A\D0203015.D

#	ID	Update Time	Quant Time	Acquisition Time
3	5	Feb 03 14:53 2014	Feb 03 14:53 2014	
4	10	Feb 03 14:53 2014	Feb 03 14:53 2014	
5	20	Feb 03 14:53 2014	Feb 03 14:53 2014	
6	50	Feb 03 15:02 2014	Feb 03 14:58 2014	
7	100	Feb 03 14:53 2014	Feb 03 14:53 2014	

4-1260-020314C.M Mon Feb 03 15:06:57 2014

Data Path : C:\msdchem\1\DATA\020314A\
 Data File : D0203014.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 3 Feb 2014 12:30 pm
 Operator : JMB
 Sample : 1260/1016 S0 Inst : ECD 4
 Misc :
 ALS Val : 14 Sample Multiplier: 1

Integration File signal 1: FRONT-1260.E
 Integration File signal 2: 1260-BACK.E
 Quant Time: Feb 03 14:58:53 2014
 Quant Method : C:\msdchem\1\METHODS\pcb methods\4-1260-020314C.M
 DataAcq Meth:PCB01.M
 Quant Title : 1260/1016 02/03/14 12/05/13
 QLast Update : Mon Feb 03 14:53:12 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) S Tetrachlo...	2.258	2.730	876.6E6	547.4E6	49.444	49.069
Spiked Amount	20.000 Range	60 - 300	Recovery	=	247.22%	245.35%
2) S Decachlor...	6.328	7.061	950.8E6	732.0E6	45.833	44.406
Spiked Amount	20.000 Range	60 - 300	Recovery	=	229.16%	222.03%
Target Compounds						
3) L1 1016{1}	2.772	3.598	33313099	8949549	41.475	45.818
4) L1 1016{2}	3.087	3.758	40907988	25886839	43.774m	46.888
5) L1 1016{3}	3.177	3.859	29929538	17846488	42.827	40.508
6) L1 1016{4}	3.219	3.938	18898613	10468268	44.026	48.764
7) L1 1016{5}	3.459	4.219	22869503	14304721	42.410	45.383
Sum 1016			145.9E6	77455864	214.512	227.360
Average 1016					42.902	45.472
8) L7 1260{1}	4.553	5.219	67523820	33001365	42.490	44.197
9) L7 1260{2}	4.765	5.386	74732429	39893309	42.903	41.168
10) L7 1260{3}	4.856	5.752	42951585	31394931	41.890	43.385
11) L7 1260{4}	5.045	5.986	48591849	37139574	42.332	44.616
12) L7 1260{5}	5.291	6.165	100.0E6	80416118	44.498	45.599
Sum 1260			333.9E6	221.8E6	214.114	218.964
Average 1260					42.823	43.793

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Method Path : C:\msdchem\1\METHODS\pcb methods\
 Method File : 4-1254-020314C.M
 Title : 1254 02/03/13 09/17/13
 Last Update : Tue Feb 04 09:00:26 2014
 Response Via : Initial Calibration

Calibration Files

=0005.D 5 =D0203011.D 10 =D0203012.D
 20 =D0203013.D 50 =D0203014.D 100 =D0203015.D

Compound	5	10	20	50	100	Avg	%RSD
1) S Tetrachloro-m...	1.750	1.777	1.792	1.753	1.877	1.886	1.818 E7 3.49
2) S Decachlorobip...	2.169	2.061	1.994	1.902	1.986	2.001	2.017 E7 4.06
3) L6 1254{1}	7.610	7.049	6.346	6.151	5.978	6.505	E5 10.47
4) L6 1254{2}	1.338	1.254	1.144	1.157	1.167	1.203	E6 6.37
5) L6 1254{3}	9.867	9.279	8.565	8.535	7.922	8.555	E5 11.02
6) L6 1254{4}	1.040	1.001	0.923	0.897	0.881	0.935	E6 7.45
7) L6 1254{5}	1.418	1.390	1.303	1.300	1.313	1.338	E6 3.90

Signal #2 Calibration Files

=0005.D 5 =D0203011.D 10 =D0203012.D
 20 =D0203013.D 50 =D0203014.D 100 =D0203015.D

Compound	5	10	20	50	100	Avg	%RSD
1) S Tetrachloro-m...	1.099	1.125	1.122	1.095	1.167	1.161	1.134 E7 2.83
2) S Decachlorobip...	1.719	1.636	1.590	1.464	1.539	1.567	1.584 E7 5.01
3) L6 1254{1}	5.060	5.005	4.577	4.631	4.485	4.695	E5 5.82
4) L6 1254{2}	6.272	5.786	5.167	5.261	5.128	5.442	E5 8.92
5) L6 1254{3}	8.754	8.405	7.800	7.951	7.970	8.126	E5 4.58
6) L6 1254{4}	4.569	4.544	4.195	4.157	4.022	4.236	E5 6.29
7) L6 1254{5}	1.033	1.032	0.970	0.972	0.963	0.987	E6 3.59

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method Path : C:\msdchem\1\METHODS\pcb methods\
 Method File : 4-1254-020314C.M
 Title : 1254 02/03/13 09/17/13
 Last Update : Tue Feb 04 09:00:26 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
2	5	5	0	C:\msdchem\1\DATA\020314A\D0203011.D
3	10	10	0	C:\msdchem\1\DATA\020314A\D0203012.D
4	20	20	0	C:\msdchem\1\DATA\020314A\D0203013.D
5	50	50	0	C:\msdchem\1\DATA\020314A\D0203014.D
6	100	100	0	C:\msdchem\1\DATA\020314A\D0203015.D
7	200	200	0	C:\msdchem\1\DATA\020314A\D0203016.D

#	ID	Update Time	Quant Time	Acquisition Time
2	5	Feb 04 09:00 2014	Feb 04 08:46 2014	
3	10	Feb 04 09:00 2014	Feb 04 08:46 2014	
4	20	Feb 04 09:00 2014	Feb 04 08:46 2014	
5	50	Feb 04 09:00 2014	Feb 04 08:46 2014	
6	100	Feb 04 09:00 2014	Feb 04 08:46 2014	
7	200	Feb 04 09:00 2014	Feb 04 08:46 2014	

4-1254-020314C.M Tue Feb 04 09:00:54 2014

Method Path : C:\msdchem\1\METHODS\pcb methods\
 Method File : 4-1248-020314C.M
 Title : 1248 02/03/14 08/29/13
 Last Update : Tue Feb 04 09:10:57 2014
 Response Via : Initial Calibration

Calibration Files

=0005.D 5 =D0203011.D 10 =D0203012.D
 20 =D0203013.D 50 =D0203014.D 100 =D0203015.D

Compound	5	10	20	50	100	Avg	%RSD
1) S Tetrachloro-m...	1.750	1.777	1.792	1.753	1.877	1.856	1.818 E7 3.49
2) S Decachlorobip...	2.169	2.061	1.994	1.902	1.986	2.001	2.017 E7 4.06
3) L5 1248{1}		4.384	4.353	3.803	3.913	4.192	3.930 E5 13.78
4) L5 1248{2}		6.799	6.954	5.918	5.925	6.097	6.265 E5 7.69
5) L5 1248{3}		4.953	5.127	4.464	4.551	4.632	4.699 E5 5.88
6) L5 1248{4}		6.961	6.708	6.119	6.299	6.669	6.534 E5 4.67
7) L5 1248{5}		6.905	6.451	6.410	6.417	6.801	6.572 E5 3.36

Signal #2 Calibration Files

=0005.D 5 =D0203011.D 10 =D0203012.D
 20 =D0203013.D 50 =D0203014.D 100 =D0203015.D

Compound	5	10	20	50	100	Avg	%RSD
1) S Tetrachloro-m...	1.099	1.125	1.122	1.095	1.167	1.161	1.134 E7 2.83
2) S Decachlorobip...	1.719	1.636	1.590	1.464	1.539	1.567	1.584 E7 5.01
3) L5 1248{1}		2.065	2.568	2.072	2.424	2.885	2.464 E5 14.01
4) L5 1248{2}		3.130	3.364	2.863	2.862	2.876	2.971 E5 7.82
5) L5 1248{3}		4.129	4.313	3.726	3.743	3.861	3.912 E5 6.45
6) L5 1248{4}		4.440	4.767	4.160	4.231	4.431	4.380 E5 5.04
7) L5 1248{5}		5.318	5.813	5.098	5.182	5.441	5.183 E5 10.05

(#) = Out of Range ### Number of calibration levels exceeded format ###

79

Method Path : C:\msdchem\1\METHODS\pcb methods\
 Method File : 4-1248-020314C.M
 Title : 1248 02/03/14 08/29/13
 Last Update : Tue Feb 04 09:10:57 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
2	5	5	0	C:\msdchem\1\DATA\020314A\D0203011.D
3	10	10	0	C:\msdchem\1\DATA\020314A\D0203012.D
4	20	20	0	C:\msdchem\1\DATA\020314A\D0203013.D
5	50	50	0	C:\msdchem\1\DATA\020314A\D0203014.D
6	100	100	0	C:\msdchem\1\DATA\020314A\D0203015.D
7	200	200	0	C:\msdchem\1\DATA\020314A\D0203016.D

#	ID	Update Time	Quant Time	Acquisition Time
2	5	Feb 04 09:10 2014	Feb 04 08:46 2014	
3	10	Feb 04 09:10 2014	Feb 04 08:46 2014	
4	20	Feb 04 09:10 2014	Feb 04 08:46 2014	
5	50	Feb 04 09:10 2014	Feb 04 08:46 2014	
6	100	Feb 04 09:10 2014	Feb 04 08:46 2014	
7	200	Feb 04 09:10 2014	Feb 04 08:46 2014	

4-1248-020314C.M Tue Feb 04 09:11:30 2014

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0517
Client:	WSP	Project:	5140 Site - Yorkville, NY
Instrument ID:	ECD4	Calibration:	1400041
Lab File ID:	D0220004.D	Calibration Date:	02/03/14 00:00
Sequence:	S005890	Injection Date:	02/20/14
Lab Sample ID:	S005890-CCV1	Injection Time:	08:42

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	99.4				-0.6	15
Aroclor-1016 [2C]	A	100	104				3.7	15
Aroclor-1260	A	100	88.6				-11.4	15
Aroclor-1260 [2C]	A	100	85.9				-14.1	15
Decachlorobiphenyl	A	100	93.8	2.016737E+07	1.8916E+07		-6.2	
Decachlorobiphenyl [2C]	A	100	95.9	1.583633E+07	1.5185E+07		-4.1	
Tetrachloro-m-xylene	A	100	91.0	1.817602E+07	1.6538E+07		-9.0	
Tetrachloro-m-xylene [2C]	A	100	99.6	1.134316E+07	1.1302E+07		-0.4	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory	Con-Test Analytical Laboratory	Work Order:	14B0517
Client:	WSP	Project:	5140 Site - Yorkville, NY
Instrument ID:	ECD4	Calibration:	1400041
Lab File ID:	D0220005.D	Calibration Date:	02/03/14 00:00
Sequence:	S005890	Injection Date:	02/20/14
Lab Sample ID:	S005890-CCV2	Injection Time:	08:55

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254	A	100	89.2				-10.8	15
Aroclor-1254 [2C]	A	100	81.1				-18.9	15
Decachlorobiphenyl	A	100	91.5	2.016737E+07	1.8462E+07		-8.5	
Decachlorobiphenyl [2C]	A	100	93.6	1.583633E+07	1.4827E+07		-6.4	
Tetrachloro-m-xylene	A	100	88.9	1.817602E+07	1.6154E+07		-11.1	
Tetrachloro-m-xylene [2C]	A	100	97.0	1.134316E+07	1.1002E+07		-3.0	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0517
Client:	WSP	Project:	5140 Site - Yorkville, NY
Instrument ID:	ECD4	Calibration:	1400041
Lab File ID:	DD220006.D	Calibration Date:	02/03/14 00:00
Sequence:	S005890	Injection Date:	02/20/14
Lab Sample ID:	S005890-CCV3	Injection Time:	09:08

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1248	A	100	95.4				-4.6	15
Aroclor-1248 [2C]	A	100	92.0				-8.0	15
Decachlorobiphenyl	A	100	99.4	2.016737E+07	2.004E+07		-0.6	/
Decachlorobiphenyl [2C]	A	100	101	1.583633E+07	1.6068E+07		1.5	
Tetrachloro-m-xylene	A	100	100	1.817602E+07	1.8236E+07		0.3	
Tetrachloro-m-xylene [2C]	A	100	110	1.134316E+07	1.2448E+07		9.7	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0517
Client:	WSP	Project:	5140 Site - Yorkville, NY
Instrument ID:	ECD4	Calibration:	1400041
Lab File ID:	D0220051.D	Calibration Date:	02/03/14 00:00
Sequence:	S005890	Injection Date:	02/20/14
Lab Sample ID:	S005890-CCV4	Injection Time:	19:15

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	85.6				-14.4	15
Aroclor-1016 [2C]	A	100	94.0				-6.0	15
Aroclor-1260	A	100	89.2				-10.8	15
Aroclor-1260 [2C]	A	100	88.9				-11.1	15
Decachlorobiphenyl	A	100	95.2	2.016737E+07	1.9198E+07		-4.8	
Decachlorobiphenyl [2C]	A	100	97.3	1.583633E+07	1.5404E+07		-2.7	
Tetrachloro-m-xylene	A	100	92.2	1.817602E+07	1.6762E+07		-7.8	
Tetrachloro-m-xylene [2C]	A	100	103	1.134316E+07	1.1679E+07		3.0	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0517
Client:	WSP	Project:	5140 Site - Yorkville, NY
Instrument ID:	ECD4	Calibration:	1400041
Lab File ID:	D0220067.D	Calibration Date:	02/03/14 00:00
Sequence:	S005890	Injection Date:	02/21/14
Lab Sample ID:	S005890-CCV5	Injection Time:	02:06

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	50.0	41.9				-16.2	15
Aroclor-1016 [2C]	A	50.0	47.5				-5.0	15
Aroclor-1260	A	50.0	45.5				-9.1	15
Aroclor-1260 [2C]	A	50.0	45.9				-8.1	15
Decachlorobiphenyl	A	50.0	41.7	2.016737E+07	1.6804E+07		-16.7	
Decachlorobiphenyl [2C]	A	50.0	42.1	1.583633E+07	1.335E+07		-15.7	
Tetrachloro-m-xylene	A	50.0	43.0	1.817602E+07	1.5616E+07		-14.1	
Tetrachloro-m-xylene [2C]	A	50.0	48.1	1.134316E+07	1.0914E+07		-3.8	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\022014\
 Data File : D0220067.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2014 2:06 am
 Operator : JMB
 Sample : 1260/1016 50 Inst : ECD 4
 Misc :
 ALS Vial : 67 Sample Multiplier: 1

Integration File signal 1: FRONT-1260.E
 Integration File signal 2: 1260-BACK.E
 Quant Time: Feb 21 14:41:10 2014
 Quant Method : C:\msdchem\1\METHODS\pcb methods\4-1260-021014.M
 DataAcq Meth: PCB01.M
 Quant Title : 1260/1016 02/03/14 12/05/13
 QLast Update : Mon Feb 03 15:03:28 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.179	2.657	780.8E6	545.7E6	42.956	48.101
Spiked Amount	20.000 Range	60 - 300	Recovery	=	214.78%	240.51%
2) S Decachlor...	6.232	6.985	840.2E6	667.5E6	41.658	42.148
Spiked Amount	20.000 Range	60 - 300	Recovery	=	208.29%	210.74%
Target Compounds						
3) L1 1016 {1}	2.690	3.511	31171722	8858305	45.068	49.452
4) L1 1016 {2}	2.998	3.668	38217392	27340758	43.140m	48.916m
5) L1 1016 {3}	3.086	3.769	25085900	16205753	40.331	42.821
6) L1 1016 {4}	3.128	3.848	14966540	10164142	38.134	48.118 #
7) L1 1016 {5}	3.364	4.125	20428208	14060133	42.763	48.271
Sum 1016			129.9E6	76629089	209.435	237.578
Average 1016					41.887	47.516
8) L7 1260 {1}	4.446	5.117	63552956	32245165	44.306	47.444
9) L7 1260 {2}	4.656	5.283	71942862	38830364	45.361	45.757
10) L7 1260 {3}	4.746	5.647	42180663	29849090	46.616	45.521
11) L7 1260 {4}	4.933	5.886	43722544	35364658	42.632	45.834
12) L7 1260 {5}	5.179	6.073	103.7E6	76112380	48.445	45.152
Sum 1260			325.1E6	212.4E6	227.360	229.708
Average 1260					45.472	45.942

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

CHECKED BY:
 PETER GRAYSONICZ FEB 21 2014

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0517
Client:	WSP	Project:	5140 Site - Yorkville, NY
Instrument ID:	ECD4	Calibration:	1400041
Lab File ID:	D0220070.D	Calibration Date:	02/03/14 00:00
Sequence:	S005890	Injection Date:	02/21/14
Lab Sample ID:	S005890-CCV6	Injection Time:	08:54

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	87.0				-13.0	15
Aroclor-1016 [2C]	A	100	91.1				-8.9	15
Aroclor-1260	A	100	90.5				-9.5	15
Aroclor-1260 [2C]	A	100	86.2				-13.8	15
Decachlorobiphenyl	A	100	91.1	2.016737E+07	1.837E+07		-8.9	
Decachlorobiphenyl [2C]	A	100	89.3	1.583633E+07	1.4148E+07		-10.7	
Tetrachloro-m-xylene	A	100	94.3	1.817602E+07	1.7138E+07		-5.7	
Tetrachloro-m-xylene [2C]	A	100	100	1.134316E+07	1.1365E+07		0.2	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

258

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0517
Client:	WSP	Project:	5140 Site - Yorkville, NY
Instrument ID:	ECD4	Calibration:	1400041
Lab File ID:	D0220083.D	Calibration Date:	02/03/14 00:00
Sequence:	S005890	Injection Date:	02/21/14
Lab Sample ID:	S005890-CCV7	Injection Time:	17:45

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	50.0	43.6				-12.8	15
Aroclor-1016 [2C]	A	50.0	48.5				-2.9	15
Aroclor-1260	A	50.0	46.8				-6.5	15
Aroclor-1260 [2C]	A	50.0	45.3				-9.4	15
Decachlorobiphenyl	A	50.0	46.5	2.016737E+07	1.877E+07		-6.9	
Decachlorobiphenyl [2C]	A	50.0	45.7	1.583633E+07	1.4468E+07		-8.6	
Tetrachloro-m-xylene	A	50.0	46.0	1.817602E+07	1.6734E+07		-7.9	
Tetrachloro-m-xylene [2C]	A	50.0	49.7	1.134316E+07	1.1276E+07		-0.6	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data Validation Report

**WSP Group
5140 Commercial Dr.
Yorkville, New York**

SDG# 14B0633



ECT.CON INC.

Environmental and Computer
Technology Consultants

115 Riverview Bend South Unit 2144
Palm Coast, FL 32137
Office (386) 283-9360
Cell (724) 288-1971
e-mail: ectconinc@mac.com

DATA VALIDATION REPORT

Project Name: 5140 Commercial Dr, Yorkville, NY
SIXG # 14B0633

Performed for: WSP

Laboratory: Con-test Analytical Laboratory

Validation Performed by: ECT.CON INC
Validation Guidance: USEPA CLP National Functional Guidelines for Organic
Data Review (NFG)

Validation Report Date: 4/30/14

Samples/Matrix:

	Sample Date	Sample ID	Laboratory ID	Matrix
1	02/20/14	Berm 5N-215E	14B0633-01	Solid
2	02/20/14	Berm 5N-225E	14B0633-02	Solid
3	02/20/14	Berm 5N-235E	14B0633-03	Solid
4	02/20/14	Berm 5N-245E	14B0633-04	Solid
5	02/20/14	Berm 10N-245E	14B0633-05	Solid
6	02/21/14	EXC 60N-8E	14B0633-06	Solid
7	02/21/14	Slab-45N-5E	14B0633-07	Solid
8	02/21/14	Slab-45N-15E	14B0633-08	Solid
9	02/21/14	Slab-45N-25E	14B0633-09	Solid
10	02/21/14	Slab-55N-25E	14B0633-10	Solid
11	02/21/14	Slab-55N-35E	14B0633-11	Solid

This sample set consists of the following:

Field Samples : 11
Trip Blanks : 0
Equipment Blanks : 0
Field Blanks : 0
Field Duplicates: 1

Analytical data in this report were reviewed to determine analytical limitations of the data based on specific quality control criteria. This review is performed on a laboratory signed data data package. The laboratory signature indicates that the laboratory has reviewed and has certified that the information provided in the data package are correct and complete.

The results of the review are an interpretation of the reported quality control information provided by the laboratory in comparison to the specified validation criteria for the project. Laboratory calculations have been verified as part of the validation. Form I's and/or analytical results sheets are annotated with the results of the validation.

This evaluation was conducted in accordance with the requested validation guidelines, project requirement and the analytical method. Findings from this validation should be considered when using the analytical data.

The organic findings are based on the validation of the following:

- Sample Preservation
- Holding Times
- Initial Calibration
- Continuing Calibration
- Blanks (lab and field)
- System Monitoring Compounds
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- Laboratory Control Sample (LCS)
- Target Compound Identification
- Compound Quantification and Quantitation Limits
- System Performance

This report consists of the validation findings. This is followed by annotated Form I's. The final section of the report is supporting documentation. This consists of the Chain of Custody, laboratory case narrative and the validation worksheets.

Project Number: 14B0633

Method Number **Description**
 SW-846 8082 Polychlorinated Biphenyls (PCBs)

				PCB
	Sample Date	Sample ID	Laboratory ID	8082
1	02/20/14	Berm 5N-21SE	14B0633-01	Solid X
2	02/20/14	Berm 5N-22SE	14B0633-02	Solid X
3	02/20/14	Berm 5N-23SE	14B0633-03	Solid X
4	02/20/14	Berm 5N-24SE	14B0633-04	Solid X
5	02/20/14	Berm 10N-24SE	14B0633-05	Solid X
6	02/21/14	EXC 60N-8E	14B0633-06	Solid X
7	02/21/14	Slab-45N-5E	14B0633-07	Solid X
8	02/21/14	Slab-45N-15E	14B0633-08	Solid X
9	02/21/14	Slab-45N-25E	14B0633-09	Solid X
10	02/21/14	Slab-55N-25E	14B0633-10	Solid X
11	02/21/14	Slab-55N-35E	14B0633-11	Solid X

11

FINDINGS

POLYCHLORINATED BIPHENYLS

1. Matrix spike/matrix spike duplicate recoveries and relative percent differences (RPDs) were outside the laboratory's quality control limits for Slab 55N-35E MS/MSD. In the unspiked sample, positive and nondetected results for Aroclors 1260 and 1016 respectively were qualified as estimated, "J" and "UJ."

Parameter	MS %R	MSD %R	RPD
1016	25.7	51.3	66.5
1260	-27.5	36.5	67.3

2. The laboratory noted that the sample fingerprint did not match exactly to the standard fingerprint for Aroclor 1260 in sample Slab 55N-25E. The positive result for Aroclor 1260 was qualified as estimated in sample Slab 55N-25E.
3. Positive results less than the reporting limits were qualified as estimated, "J", due to uncertainty near the detection limit.

NOTES**POLYCHLORINATED BIPHENYLS**

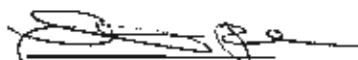
- A. Surrogate recoveries exceeded the quality control limits in one sample due to the necessary dilution of the sample extract prior to analysis. Data were not qualified on this basis.

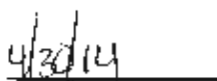
EXC-60N-8E

- B. On instrument ECD 10's analytical sequence, standards for Aroclor 1242, 1232, 1221, 1262, and 1268 are listed as part of the sequence. The quantitation reports for these compounds were not included in the data package. This is noted for completeness only. Data were not qualified on this basis.

- C. The following samples were analyzed and reported at the listed dilution factors due to the presence of target compounds and/or matrix interferences. Data were not qualified on this basis.

Sample	Lab ID	Dilution
Berm 5N-215E	14B0633-01	10X
Berm 5N-225E	14B0633-02	10X
Berm 5N-235E	14B0633-03	10X
Berm 5N-245E	14B0633-04	20X
Berm 10N-245E	14B0633-05	10X
EXC 60N-8E	14B0633-06	50000X


Data Reviewer


Date

Field Duplicates

Calculated RPD for positive results only.

ND – Nondetected results, -- RPD not calculated.

14B0633-04	14B0633-05		
Sample ID	Duplicate ID	Parameter	RPD
Berm 5N-245E	Berm 10N-245E		
ND	0.24	PCBs 1248	--
0.93	0.67	PCBs 1254	8%
3.5	2.6	PCBs 1260	7%

Glossary of Data Qualifiers

U	Not Detected	The associated number indicates approximate sample concentration necessary to be detected.
UJ	Not Detected	Quantitation limit may be inaccurate or imprecise.
J	Analyte Present	Reported value is an estimated quantity.
N	Consider Present	Tentative identification. Special methods may be needed to confirm its presence or absence in future sampling efforts.
R	Unusable Result	Analyte may or may not be present in the sample.
UR	Unusable Result	Analyte may or may not be present in the sample.



ECT.CON INC.

Environmental and Computer
Technology Consultants

9

Annotated Form 1's (Spreadsheet)



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

**1 - FORM I
ANALYSIS DATA SHEET****Berm 5N-215E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0633-01 File ID: J0223024.D
Sampled: 02/20/14 09:05 Prepared: 02/24/14 08:05 Analyzed: 02/24/14 16:44
Solids: 75.80 Preparation: SW-846 3546 Dilution: 10
Batch: B090777 Sequence: S005575 Calibration: 1400042 Instrument: ECD10

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.082	0.26	
11104-28-2	Aroclor-1221		0.26	0.26	
11141-16-5	Aroclor-1232		0.16	0.26	
53469-21-9	Aroclor-1242		0.13	0.26	
12672-29-6	Aroclor-1248	0.34	0.15	0.26	
11097-69-1	Aroclor-1254 [2C]	1.0	0.11	0.26	
11096-82-5	Aroclor-1260 [2C]	2.7	0.13	0.26	
37324-23-5	Aroclor-1262		0.11	0.26	
11100-14-4	Aroclor-1268		0.16	0.26	

* Values outside of QC limits

4/13/14



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-5405 * TEL 413/525-2332

**1 - FORM I
ANALYSIS DATA SHEET**

Berm 5N-225E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0633-02 File ID: J0223025.D
Sampled: 02/20/14 09:00 Prepared: 02/24/14 08:05 Analyzed: 02/24/14 17:02
Solids: 79.20 Preparation: SW-846 3546 Dilution: 10
Batch: B090777 Sequence: S005575 Calibration: 1400042 Instrument: ECD10

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.078	0.25	
11104-28-2	Aroclor-1221		0.25	0.25	
11141-16-5	Aroclor-1232		0.16	0.25	
53469-21-9	Aroclor-1242		0.13	0.25	
12672-29-6	Aroclor-1248	0.19 J	0.15	0.25	J
11097-69-1	Aroclor-1254 [2C]	0.56	0.11	0.25	
11096-82-5	Aroclor-1260 [2C]	1.4	0.12	0.25	
37324-23-5	Aroclor-1262		0.10	0.25	
11100-14-4	Aroclor-1268		0.15	0.25	

* Values outside of QC limits

OK
4/24/14



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67

12

1 - FORM I ANALYSIS DATA SHEET

Berm 5N-235E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0633-03 File ID: J0223026.D
Sampled: 02/20/14 08:55 Prepared: 02/24/14 08:05 Analyzed: 02/24/14 17:20
Solids: 83.50 Preparation: SW-846 3546 Dilution: 10
Batch: B090777 Sequence: S005575 Calibration: 1400042 Instrument: ECD10

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1015		0.074	0.24	
11104-28-2	Aroclor-1221		0.23	0.24	
11141-16-5	Aroclor-1232		0.15	0.24	
53469-21-9	Aroclor-1242		0.12	0.24	
12672-29-6	Aroclor-1248	0.15 <i>5</i>	0.14	0.24	<i>✓</i>
11097-69-1	Aroclor-1254 [2C]	0.48	0.10	0.24	
11096-82-5	Aroclor-1260 [2C]	1.5	0.11	0.24	
37324-23-5	Aroclor-1262		0.098	0.24	
11100-14-4	Aroclor-1268		0.14	0.24	

* Values outside of QC limits

WSP
4/2/14



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1 - FORM I

ANALYSIS DATA SHEET

Berm 5N-245E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0633
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14B0633-04 File ID: J0223038.D
 Sampled: 02/20/14 08:45 Prepared: 02/24/14 08:05 Analyzed: 02/24/14 20:46
 Solids: 86.40 Preparation: SW-846 3546 Dilution: 20
 Batch: B090777 Sequence: S005575 Calibration: 1400042 Instrument: ECD10

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.14	0.46	
11104-28-2	Aroclor-1221		0.45	0.46	
11141-16-5	Aroclor-1232		0.28	0.46	
53469-21-9	Aroclor-1242		0.23	0.46	
12672-29-6	Aroclor-1248		0.27	0.46	
11097-69-1	Aroclor-1254	0.93	0.20	0.46	
11096-82-5	Aroclor-1260 [2C]	3.5	0.22	0.46	
37324-23-5	Aroclor-1262		0.19	0.46	
11100-14-4	Aroclor-1268		0.28	0.46	

* Values outside of QC limits

 W-
 4/22/14



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89

14

1 - FORM I ANALYSIS DATA SHEET

Berm 10N-245E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0633-05 File ID: J0223028.D
Sampled: 02/20/14 08:50 Prepared: 02/24/14 08:05 Analyzed: 02/24/14 17:55
Solids: 87.10 Preparation: SW-846 3546 Dilution: 10
Batch: B090777 Sequence: S005575 Calibration: 1400042 Instrument: ECO10

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.071	0.23	
11104-28-2	Aroclor-1221		0.23	0.23	
11141-16-5	Aroclor-1232		0.14	0.23	
53469-21-9	Aroclor-1242		0.12	0.23	
12672-29-6	Aroclor-1248	0.24	0.13	0.23	
11097-69-1	Aroclor-1254	0.67	0.099	0.23	
11096-82-5	Aroclor-1260 (2C)	2.6	0.11	0.23	
37324-23-5	Aroclor-1262		0.094	0.23	
11100-14-4	Aroclor-1268		0.14	0.23	

* Values outside of QC limits

WSP
4/23/14



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104

15

1 - FORM I ANALYSIS DATA SHEET

EXC 60N-8E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0633-06 File ID: J0223052.D
Sampled: 02/21/14 10:00 Prepared: 02/24/14 08:05 Analyzed: 02/25/14 08:52
Solids: 80.20 Preparation: SW-846 3546 Dilution: 50000
Batch: 8090777 Sequence: S005575 Calibration: 1400042 Instrument: ECD10

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		390	1200	
11104-28-2	Aroclor-1221		1200	1200	
11141-16-5	Aroclor-1232		770	1200	
53469-21-9	Aroclor-1242		640	1200	
12672-29-6	Aroclor-1248		720	1200	
11097-69-1	Aroclor-1254		540	1200	
11096-82-5	Aroclor-1260 [2C]	6500	600	1200	
37324-23-5	Aroclor-1262		510	1200	
11100-14-4	Aroclor-1268		750	1200	

* Values outside of QC limits

WSP
4/2/14



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**1 - FORM I
ANALYSIS DATA SHEET****Slab 45N-5E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0633-07 File ID: J0223040.D
Sampled: 02/21/14 11:55 Prepared: 02/24/14 08:05 Analyzed: 02/24/14 21:21
Solids: 79.30 Preparation: SW-846 3546 Dilution: 1
Batch: B090777 Sequence: S005575 Calibration: 1400042 Instrument: ECD10

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0078	0.025	
11104-28-2	Aroclor-1221		0.025	0.025	
11141-16-5	Aroclor-1232		0.016	0.025	
53469-21-9	Aroclor-1242		0.013	0.025	
12672-29-6	Aroclor-1248		0.015	0.025	
11097-69-1	Aroclor-1254		0.011	0.025	
11096-82-5	Aroclor-1260	0.082	0.012	0.025	
37324-23-5	Aroclor-1262		0.010	0.025	
11100-14-4	Aroclor-1268		0.015	0.025	

* Values outside of QC limits

11.4
4/24/14



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110

17

1 - FORM I ANALYSIS DATA SHEET

Slab 45N-15E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0633-08 File ID: J0223041.D
Sampled: 02/21/14 12:00 Prepared: 02/24/14 08:05 Analyzed: 02/24/14 21:38
Solids: 83.80 Preparation: SW-846 3546 Dilution: 1
Batch: B090777 Sequence: S005575 Calibration: 1400042 Instrument: ECD10

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0074	0.024	
11104-28-2	Aroclor-1221		0.023	0.024	
11141-16-5	Aroclor-1232		0.015	0.024	
53469-21-9	Aroclor-1242		0.012	0.024	
12672-29-6	Aroclor-1248		0.014	0.024	
11097-69-1	Aroclor-1254		0.010	0.024	
11096-82-5	Aroclor-1260 [2C]	0.15	0.011	0.024	
37324-23-5	Aroclor-1262		0.0098	0.024	
11100-14-4	Aroclor-1268		0.014	0.024	

* Values outside of QC limits

164
4/24/14



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113

18

1 - FORM I ANALYSIS DATA SHEET

Slab 45N-25E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0633-09 File ID: J0223042.D
Sampled: 02/21/14 12:15 Prepared: 02/24/14 08:05 Analyzed: 02/24/14 21:56
Solids: 91.80 Preparation: SW-846 3546 Dilution: 1
Batch: B090777 Sequence: S005575 Calibration: 1400042 Instrument: ECD10

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0067	0.022	
11104-28-2	Aroclor-1221		0.021	0.022	
11141-16-5	Aroclor-1232		0.013	0.022	
53469-21-9	Aroclor-1242		0.011	0.022	
12672-29-6	Aroclor-1248		0.013	0.022	
11097-69-1	Aroclor-1254		0.0093	0.022	
11096-82-5	Aroclor-1260	0.20	0.010	0.022	
37324-23-5	Aroclor-1262		0.0088	0.022	
11100-14-4	Aroclor-1268		0.013	0.022	

* Values outside of QC limits

6/24/14
4/2/14



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**1 - FORM I
ANALYSIS DATA SHEET**

Slab 55N-25E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0633-10 File ID: J0223043.D
Sampled: 02/21/14 12:20 Prepared: 02/24/14 08:05 Analyzed: 02/24/14 22:13
Solids: 85.20 Preparation: SW-846 3546 Dilution: 1
Batch: B090777 Sequence: S005575 Calibration: 1400042 Instrument: ECD10

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1015		0.0073	0.023	
11104-28-2	Aroclor-1221		0.023	0.023	
11141-16-5	Aroclor-1232		0.015	0.023	
53469-21-9	Aroclor-1242		0.012	0.023	
12572-29-6	Aroclor-1248		0.014	0.023	
11097-69-1	Aroclor-1254		0.010	0.023	
11096-82-5	Aroclor-1260 (2C)	0.039 <i>J</i>	0.011	0.023	~~0.04~~
37324-23-5	Aroclor-1262		0.0096	0.023	
11100-14-4	Aroclor-1268		0.014	0.023	

* Values outside of QC limits

*6.6
4/12/14*



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**1 - FORM I
ANALYSIS DATA SHEET**

Slab 55N-35E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0633-11 File ID: J0223044.D
Sampled: 02/21/14 12:25 Prepared: 02/24/14 08:05 Analyzed: 02/24/14 22:31
Solids: 92.90 Preparation: SW-846 3546 Dilution: 1
Batch: B090777 Sequence: S005575 Calibration: 1400042 Instrument: ECD10

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.0067	0.022	0.022	0.0067
11104-28-2	Aroclor-1221	0.021	0.022	0.022	
11141-16-5	Aroclor-1232	0.013	0.022	0.022	
53469-21-9	Aroclor-1242	0.011	0.022	0.022	
12672-29-6	Aroclor-1248	0.012	0.022	0.022	
11097-69-1	Aroclor-1254	0.0093	0.022	0.022	
11096-82-5	Aroclor-1260	0.010	0.022	0.022	0.010
37324-23-5	Aroclor-1262	0.0088	0.022	0.022	
11100-14-4	Aroclor-1268	0.013	0.022	0.022	

* Values outside of QC limits

10/2/14
J. J. J.



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

1 - FORM I
ANALYSIS DATA SHEET
Berm 5N-215E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0633-01
Sampled: 02/20/14 09:05
% Solids: 75.80

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	75.8			1		B090790	02/25/14 09:36	5M 2540G

4/23/14



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1 - FORM I
ANALYSIS DATA SHEET
Berm 5N-225E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0633

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0633-02

Sampled: 02/20/14 09:00

% Solids: 79.20

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	79.2			1		B090790	02/25/14 09:36	SM 2540G

4/12/14



293

23

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

1 - FORM I
ANALYSIS DATA SHEET
Berm 5N-235E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0633-03
Sampled: 02/20/14 08:55
% Solids: 83.50

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	83.5			1		B090790	02/25/14 09:36	SM 2540G

4/2/14



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

1 - FORM I
ANALYSIS DATA SHEET
Berm 5N-245E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0633-04
Sampled: 02/20/14 08:45
% Solids: 86.40

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	86.4			1		B090790	02/25/14 09:35	SM 2540G

307
4/23/14



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

1 - FORM I
ANALYSIS DATA SHEET
Berm 10N-245E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0633-05
Sampled: 02/20/14 08:50
% Solids: 87.10

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	87.1			1		B090790	02/25/14 09:36	SM 2540G

WSP
2/24/14



296

26

39 Spruce Street * East Longmeadow, MA 01026 * FAX 413/525-6406 * TEL 413/525-2332

1 - FORM I
ANALYSIS DATA SHEET
EXC 60N-8E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0633

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0633-06

Sampled: 02/21/14 10:00

% Solids: 80.20

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	80.2			1		B090790	02/25/14 09:36	SM 2540G

WSP
4/3/14



297

27

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

1 - FORM I
ANALYSIS DATA SHEET
Slab 45N-5E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0633-07
Sampled: 02/21/14 11:55
% Solids: 79.30

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	79.3			1		B090790	02/25/14 09:36	SM 2540G

WSP
4/15/14



39 Spruce Street * East Longmeadow, MA 01026 * FAX 413/525-6405 * TEL. 413/525-2332

1 - FORM I
ANALYSIS DATA SHEET
Slab 45N-15E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0633

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0633-08

Sampled: 02/21/14 12:00

% Solids: 83.80

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	83.8			1		B090790	02/25/14 09:36	SM 2540G

44
4/30/14



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

1 - FORM I
ANALYSIS DATA SHEET
Slab 45N-25E

Laboratory: Con-Test Analytical Laboratory SDG 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0633-09
Sampled: 02/21/14 12:15
% Solids 91.80

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	91.8			1		B090790	02/25/14 09:36	SM 2540C

WSP
4/15/14



300

30

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

1 - FORM I
ANALYSIS DATA SHEET
Slab 55N-25E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0633

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0633-10

Sampled: 02/21/14 12:20

% Solids: 85.20

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	85.2			1		B090790	02/25/14 09:36	SM 2540G

4/13/14



301

31

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

1 - FORM I
ANALYSIS DATA SHEET
Slab 55N-35E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0633-11
Sampled: 02/21/14 12:25
% Solids: 92.90

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	92.9			1		B090790	02/25/14 09:36	SM 2540G

14B
4/23/14



ECT.CON INC.

Environmental and Computer
Technology Consultants

Support Documentation

Laboratory Case Narrative

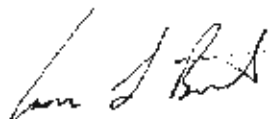
February 25, 2014

Dave Bouchard
WSP
5 Sullivan Street
Cazenovia, NY 13035

Project Location: 5140 Commercial Dr., Yorkville, NY
Client Job Number:
Project Number: E0032927.000/05
Laboratory Work Order Number: 14B0633

Enclosed are results of analyses for samples received by the laboratory on February 22, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Aaron L. Benoit
Project Manager

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

WSP
5 Sullivan Street
Cazenovia, NY 13035
ATTN: Dave Touchard

REPORT DATE 2/25/2014

PURCHASE ORDER NUMBER

PROJECT NUMBER E002927 000/05

ANALYTICAL SUMMARY

WORK ORDER NUMBER 14B0633

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

PROJECT LOCATION: 5140 Connecticut Dr., Yorkville, NY

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Berm 5N-215E	14B0633-01	Soil		SM 2540G SW-846 B082A	
Berm 5N-225E	14B0633-02	Soil		SM 2540G SW-846 B082A	
Berm 5N-235E	14B0633-03	Soil		SM 2540G SW-846 B082A	
Berm 5N-245E	14B0633-04	Soil		SM 2540G SW-846 B082A	
Berm 10N-245E	14B0633-05	Soil		SM 2540G SW-846 B082A	
Exc 60N-8E	14B0633-06	Soil		SM 2540G SW-846 B082A	
Slab 45N-5E	14B0633-07	Soil		SM 2540G SW-846 B082A	
Slab 45N-15E	14B0633-08	Soil		SM 2540G SW-846 B082A	
Slab 45N-25E	14B0633-09	Soil		SM 2540G SW-846 B082A	
Slab 55N-25E	14B0633-10	Soil		SM 2540G SW-846 B082A	
Slab 55N-35E	14B0633-11	Soil		SM 2540G SW-846 B082A	

CASE NARRATIVE SUMMARY

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

SW-646 80824

Qualifications:

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.
Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated

Analyte & Sample(s) Qualified:

Aroclor-1260, Aroclor-1260 [2C]

B090777-MS1, B090777-MSD1

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound

Analyte & Sample(s) Qualified:

Aroclor-1016, Aroclor-1016 [2C]

B090777-MS1

Sample fingerprint does not match standard exactly. Sample was quantitated against the closest matching standard

Analyte & Sample(s) Qualified:

Aroclor-1260, Aroclor-1260 [2C]

14B0613-10 [Slab 55N-25E]

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Sample(s) Qualified:

Aroclor-1016, Aroclor-1016 [2C], Aroclor-1260, Aroclor-1260 [2C]

14B0613-11 [Slab 55N-35E], B090777-MSD1, B090777-MS1

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Sample(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]

14B0613-06 [EXC 60N-8E]

Surrogate outside of control limits.

Analyte & Sample(s) Qualified:

Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]

B090777-MS1

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

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



Michael A. Erickson
Laboratory Director

FLAG/QUALIFIER SUMMARY

+	QC result is outside of established limits
+	Wide recovery limits established for difficult compound.
+	Wide RPD limits established for difficult compound
n	Data exceeded client recommended or regulatory level
Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.	
No results have been blank subtracted unless specified in the case narrative section	
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-21	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
Q-B4	Sample fingerprint does not match standard exactly. Sample was quantitated against the closest matching standard.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
S-26	Surrogate outside of control limits

Chain of Custody

CHAIN OF CUSTODY RECORD

14B0633

Page 1 of 1

Project Number: 20032927.00 ITAE 005		Site and Location: 5140 Commercial Dr., Yorkville		Matrices: S = Soil Aq = Water A = Air; Bu = Bulk W = Wipe Bt = Biotin OW = Oil/Water O = Other		Number of Containers		PCB 8082		N°		Remarks	
Sample Identification	Depth	Date	Time	Matrix									
01 Beam SN-215E	0-6	2/20/14	0905	S			1	X					med Conc.
02 Beam SN-225E	0-6		0900	S			1	X					
03 Beam SN-235E	0-6		0855	S			1	X					
04 Beam SN-245E	0-6		0845	S			1	X					
05 Beam 10N-245E	0-6	V	0850	S			1	X					med Conc.
06 Exc 60N-8E	14'	2/21/14	1000	S			2	X					High Conc.
07 SLAB 45N-5E	12-18"		1165	S			1	X					med
08 SLAB 45N-15E	12-18"		1200	S			1	X					med
09 SLAB 45N-25E	12-18"		1215	S			1	X					med
10 SLAB 55N-25E	12-18"		1220	S			1	X					med
11 SLAB 55N-35E	12-18"	V	1225	S			1	X					med
Relinquished by (Signature): <i>[Signature]</i> Date: 2/21/14 Time: 1300 Received by (Signature): <i>[Signature]</i> Date: 2/22/14 Time: 1038													
Relinquished by (Signature): <i>[Signature]</i> Date: Time Received by (Signature): <i>[Signature]</i> Date: Time													
Turn-Around Time: Tracking Number:													



WSP Environment & Energy

- ☐ Reston Office: 11190 Sunrise Valley Dr., #300, Reston, VA 20191 / Tel: 703-799-6500
- ☐ Pittsburgh Office: 750 Holiday Dr., #410, Pittsburgh, PA 15220 / Tel: 412-604-1040
- ☐ San Jose Office: 2025 Gateway Place, #435, San Jose, CA 95110 / Tel: 408-453-6100
- ☐ New Jersey Office: 200 Colonial Ln., Somerset, NJ 08873 / Tel: 732-564-0888
- ☐ Denver Office: 4600 South Ulster, #930, Denver, CO 80237 / Tel: 303-850-9200
- ☐ Minneapolis Office: 123 North 3rd St., #808, Minneapolis, MN 55401 / Tel: 612-343-0510
- ☐ Woburn Office: 300 Trade Center, Suite 4690, Woburn, MA 01801
- ☒ Cazenovia Office: 5 Sullivan St., Cazenovia, NY 13035 / Tel: 315-655-3900

10

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Page 1 of 2



Sample Receipt Checklist

CLIENT NAME: NSP Environment & Energy RECEIVED BY: MT DATE: 02/22/14

- 1) Was the chain(s) of custody relinquished and signed? ☒ Yes ☐ No No CoC Included
- 2) Does the chain agree with the samples? ☒ Yes ☐ No
If not, explain:
- 3) Are all the samples in good condition? ☒ Yes ☐ No
If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes ☐ No ☐ N/A

Temperature °C by Temp blank 2.0°C Temperature °C by Temp gun _____

- 5) Are there Dissolved samples for the lab to filter? Yes ☐ No ☒

Who was notified _____ Date _____ Time _____

- 6) Are there any RUSH or SHORT HOLDING TIME samples? ☒ Yes ☐ No

Who was notified _____ Date _____ Time _____

- 7) Location where samples are stored:

19

Permission to subcontract samples? Yes ☐ No ☐
(Walk-in clients only) if not already approved
Client Signature: _____

- 8) Do all samples have the proper Acid pH: Yes ☐ No ☒ N/A

- 9) Do all samples have the proper Base pH: Yes ☐ No ☒ N/A

- 10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes ☐ No ☒ N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	<u>12 A</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Doc# 27

Rev. 4 August 2013

Page 2 of 2

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements?

Date/Time:

Doc #277 Rev. 4 August 2013

Log-In Technician Initials:

Date/Time:

MJ 2/22/14 10:38

Worksheets

PERCENT SOLIDS

Preservative - Cool <4C
Hold Time - 7 days

Sample Date	Sample ID	Laboratory ID	Matrix	Preservative	Days to Analysis	Date Analyzed	Dish Wgt	Sample Mass Wet	Sample Mass Dry	Calcd %S	Rptd %S
1 02/20/14	Berm 5N-215E	14B0633-01	Solid	Cool <4C	4	2/24/14	1.036	14.915	11.561	75.8	75.8
2 02/20/14	Berm 5N-225E	14B0633-02	Solid	Cool <4C	4	2/24/14	1.054	10.181	8.282	79.2	79.2
3 02/20/14	Berm 5N-235E	14B0633-03	Solid	Cool <4C	4	2/24/14	1.041	16.344	13.826	83.5	83.5
4 02/20/14	Berm 5N-245E	14B0633-04	Solid	Cool <4C	4	2/24/14	1.041	7.794	6.873	86.4	86.4
5 02/20/14	Berm 10N-245E	14B0633-05	Solid	Cool <4C	4	2/24/14	1.033	9.983	8.826	87.1	87.1
6 02/21/14	FXC 60N-8E	14B0633-06	Solid	Cool <4C	3	2/24/14	1.035	10.661	8.751	80.2	80.2
7 02/21/14	Slab-45N-5E	14B0633-07	Solid	Cool <4C	3	2/24/14	1.037	15.929	12.84	79.3	79.3
8 02/21/14	Slab-45N-15E	14B0633-08	Solid	Cool <4C	3	2/24/14	1.032	11.741	10.007	83.8	83.8
9 02/21/14	Slab-45N-25E	14B0633-09	Solid	Cool <4C	3	2/24/14	1.029	12.268	11.341	91.8	91.8
10 02/21/14	Slab-55N-25E	14B0633-10	Solid	Cool <4C	3	2/24/14	1.03	13.9	12	85.2	85.2
11 02/21/14	Slab-55N-35E	14B0633-11	Solid	Cool <4C	3	2/24/14	1.027	8.786	8.235	92.9	92.9

Sample	Slab-55N-35E
Dup	92.9
RPD	94.5
RPD Rptd	-1.708
	1.71

$$RPD = ((LCSD - LCSD) / 2) * 100$$

PERCENT SOLIDS

CON-TEST LABORATORY

TEMP IN: 104 °C	dish	dish & sample	time	date	sample	dried dish & sample	time	date	dried sample	% solid
B090790										
MRM	1.045	g	12:40	02/24/2014	8.9630	9.306	09:21	02/25/2014	8.2610	92.2
MRM	1.051	g	12:45	02/24/2014	9.8390	7.893	09:21	02/25/2014	6.8420	69.5
MRM	1.054	g	12:45	02/24/2014	6.5190	6.706	09:21	02/25/2014	5.6520	86.7
MRM	1.043	g	12:45	02/24/2014	9.5450	9.184	09:21	02/25/2014	8.1410	85.3
MRM	1.056	g	12:45	02/24/2014	8.6720	8.527	09:21	02/25/2014	7.4710	86.2
MRM	1.041	g	12:46	02/24/2014	12.3760	11.150	09:22	02/25/2014	10.1090	81.7
MRM	1.042	g	12:52	02/24/2014	10.2240	8.283	09:22	02/25/2014	7.2410	70.8
MRM	1.044	g	12:52	02/24/2014	12.9870	12.118	09:22	02/25/2014	11.0740	85.3
MRM	1.049	g	12:52	02/24/2014	10.2080	9.803	09:22	02/25/2014	8.7540	85.8
MRM	1.051	g	12:52	02/24/2014	10.4660	10.020	09:22	02/25/2014	8.9690	85.7
MRM	1.050	g	12:52	02/24/2014	9.8470	9.678	09:22	02/25/2014	8.6280	87.6
MRM	1.048	g	12:52	02/24/2014	9.9270	9.227	09:22	02/25/2014	8.1790	82.4
MRM	1.057	g	12:59	02/24/2014	9.6830	9.749	09:22	02/25/2014	8.6920	89.8
MRM	1.042	g	12:59	02/24/2014	11.4660	10.981	09:23	02/25/2014	9.9390	86.7
MRM	1.045	g	12:59	02/24/2014	9.0330	7.545	09:23	02/25/2014	6.5000	72.0
MRM	1.041	g	12:59	02/24/2014	9.2690	8.848	09:23	02/25/2014	7.8070	84.2
MRM	1.042	g	13:00	02/24/2014	11.0550	9.776	09:23	02/25/2014	8.7340	79.0
MRM	1.060	g	13:03	02/24/2014	9.1080	8.982	09:23	02/25/2014	7.9220	87.0
MRM	1.060	g	13:03	02/24/2014	9.3250	9.185	09:23	02/25/2014	8.1250	87.1
MRM	1.058	g	13:03	02/24/2014	11.8030	11.548	09:23	02/25/2014	10.4900	88.9
MRM	1.043	g	13:03	02/24/2014	12.2360	12.071	09:23	02/25/2014	11.0280	90.1
MRM	1.041	g	13:07	02/24/2014	8.9940	8.746	09:24	02/25/2014	7.7050	85.7
MRM	1.043	g	13:07	02/24/2014	8.2380	8.610	09:24	02/25/2014	7.5670	91.9
MRM	1.039	g	13:07	02/24/2014	12.5050	11.049	09:24	02/25/2014	10.0100	80.0
MRM	1.042	g	13:13	02/24/2014	8.3300	8.661	09:24	02/25/2014	7.6190	91.5
MRM	1.049	g	13:13	02/24/2014	10.3150	10.204	09:24	02/25/2014	9.1550	88.8
MRM	1.043	g	13:13	02/24/2014	8.3020	8.490	09:25	02/25/2014	7.4470	89.7
MRM	1.032	g	13:13	02/24/2014	7.3860	7.489	09:25	02/25/2014	6.4570	87.4
MRM	1.032	g	13:13	02/24/2014	9.9820	10.036	09:25	02/25/2014	9.0040	90.2

CON-TEST LABORATORY

PERCENT SOLIDS

MRM	14B0487-09	1.043	g	9.196	g	13:19	02/24/2014	8.1530	8.634	g	09:25	02/25/2014	7.5910	93.1
MRM	14B0487-10	1.055	g	9.591	g	13:19	02/24/2014	8.5360	8.930	g	09:25	02/25/2014	7.8750	92.3
MRM	14B0487-11	1.038	g	10.902	g	13:19	02/24/2014	9.8640	8.909	g	09:25	02/25/2014	7.8710	79.8
MRM	14B0487-12	1.033	g	10.908	g	13:19	02/24/2014	9.8750	9.952	g	09:26	02/25/2014	8.9190	90.3
MRM	14B0487-13	1.027	g	11.154	g	13:19	02/24/2014	10.1270	10.067	g	09:26	02/25/2014	9.0400	89.3
MRM	14B0487-14	1.024	g	11.534	g	13:20	02/24/2014	10.5100	10.730	g	09:26	02/25/2014	9.7060	92.4
MRM	14B0487-15	1.027	g	12.520	g	13:20	02/24/2014	11.4930	10.993	g	09:26	02/25/2014	9.9660	86.7
MRM	14B0610-01	1.032	g	8.703	g	13:24	02/24/2014	7.6710	8.114	g	09:26	02/25/2014	7.0820	92.3
MRM	14B0610-02	1.036	g	9.423	g	13:24	02/24/2014	8.3870	8.785	g	09:26	02/25/2014	7.7490	92.4
MRM	14B0610-03	1.041	g	11.774	g	13:24	02/24/2014	10.7330	10.938	g	09:26	02/25/2014	9.8970	92.2
MRM	14B0610-04	1.03	g	9.479	g	13:25	02/24/2014	8.4490	8.829	g	09:26	02/25/2014	7.7990	92.3
MRM	14B0610-05	1.027	g	11.085	g	13:27	02/24/2014	10.0580	10.286	g	09:27	02/25/2014	9.2590	92.1
MRM	14B0610-06	1.024	g	10.814	g	13:27	02/24/2014	9.7900	9.945	g	09:27	02/25/2014	8.9210	91.1
MRM	14B0610-07	1.031	g	10.890	g	13:28	02/24/2014	9.8590	10.057	g	09:27	02/25/2014	9.0260	91.6
MRM	14B0610-08	1.041	g	10.580	g	13:28	02/24/2014	9.5390	9.825	g	09:27	02/25/2014	8.7840	92.1
MRM	14B0610-09	1.046	g	9.460	g	13:30	02/24/2014	8.4140	8.799	g	09:27	02/25/2014	7.7530	92.1
MRM	14B0610-10	1.031	g	9.359	g	13:30	02/24/2014	8.3280	8.828	g	09:27	02/25/2014	7.7970	93.6
MRM	14B0610-11	1.039	g	10.959	g	13:30	02/24/2014	9.9200	10.072	g	09:27	02/25/2014	9.0330	91.1
MRM	14B0610-12	1.036	g	10.226	g	13:31	02/24/2014	9.1900	9.374	g	09:27	02/25/2014	8.3380	90.7
MRM	14B0610-13	1.038	g	10.621	g	13:37	02/24/2014	9.5830	9.854	g	09:28	02/25/2014	8.8160	92.0
MRM	14B0610-14	1.041	g	11.685	g	13:37	02/24/2014	10.6440	10.851	g	09:30	02/25/2014	9.8100	92.2
MRM	14B0610-15	1.045	g	11.373	g	13:37	02/24/2014	10.3280	10.582	g	09:30	02/25/2014	9.5370	92.3
MRM	14B0610-16	1.041	g	10.569	g	13:37	02/24/2014	9.5280	9.740	g	09:30	02/25/2014	8.6990	91.3
MRM	14B0610-17	1.041	g	10.291	g	13:37	02/24/2014	9.2500	9.472	g	09:30	02/25/2014	8.4310	91.1
MRM	14B0610-18	1.036	g	9.538	g	13:37	02/24/2014	8.5020	8.838	g	09:31	02/25/2014	7.8020	91.8
MRM	14B0610-19	1.045	g	11.467	g	13:41	02/24/2014	10.4220	10.620	g	09:31	02/25/2014	9.5750	91.9
MRM	14B0610-20	1.030	g	10.893	g	13:41	02/24/2014	9.8630	10.077	g	09:31	02/25/2014	9.0470	91.7
MRM	14B0610-21	1.038	g	11.506	g	13:42	02/24/2014	10.4680	10.562	g	09:31	02/25/2014	9.5240	91.0
MRM	14B0610-22	1.030	g	9.994	g	13:42	02/24/2014	8.9640	9.354	g	09:31	02/25/2014	8.3240	92.9
MRM	14B0610-23	1.026	g	9.945	g	13:42	02/24/2014	8.9190	9.215	g	09:31	02/25/2014	8.1890	91.8
MRM	14B0610-24	1.055	g	9.499	g	13:42	02/24/2014	8.4440	9.037	g	09:31	02/25/2014	7.9820	94.5
MRM	14B0633-01	1.036	g	14.915	g	13:46	02/24/2014	13.8790	11.561	g	09:31	02/25/2014	10.5250	75.8
MRM	14B0633-02	1.054	g	10.181	g	13:47	02/24/2014	9.1270	8.282	g	09:31	02/25/2014	7.2280	79.2
MRM	14B0633-03	1.041	g	16.344	g	13:47	02/24/2014	15.3030	13.826	g	09:32	02/25/2014	12.7850	83.5

CON-TEST LABORATORY

PERCENT SOLIDS

MRM	14B0633-04	1.041	g	7.794	g	13:47	02/24/2014	6.7530	6.873	g	09:32	02/25/2014	5.8320	86.4
MRM	14B0633-05	1.033	g	9.983	g	13:51	02/24/2014	8.9500	8.826	g	09:32	02/25/2014	7.7930	87.1
MRM	14B0633-06	1.035	g	10.661	g	13:52	02/24/2014	9.6260	8.751	g	09:32	02/25/2014	7.7160	80.2
MRM	14B0633-07	1.037	g	15.929	g	13:52	02/24/2014	14.8920	12.840	g	09:32	02/25/2014	11.8030	79.3
MRM	14B0633-08	1.032	g	11.741	g	13:52	02/24/2014	10.7090	10.007	g	09:32	02/25/2014	8.9750	83.8
MRM	14B0633-09	1.029	g	12.268	g	13:54	02/24/2014	11.2390	11.341	g	09:32	02/25/2014	10.3120	91.8
MRM	14B0633-10	1.030	g	13.900	g	13:54	02/24/2014	12.8700	12.000	g	09:32	02/25/2014	10.9700	85.2
MRM	14B0633-11	1.027	g	8.786	g	13:54	02/24/2014	7.7590	8.235	g	09:32	02/25/2014	7.2080	92.9
MRM	14B0639-01	1.023	g	9.787	g	13:55	02/24/2014	8.7640	9.005	g	09:33	02/25/2014	7.9820	91.1
MRM	DUP1(14B0486-09)	1.019	g	9.887	g	14:00	02/24/2014	8.8680	9.246	g	09:34	02/25/2014	8.2270	92.8
MRM	DUP2(14B0486-20)	1.016	g	10.921	g	14:00	02/24/2014	9.9050	9.934	g	09:34	02/25/2014	8.9180	90.0
MRM	DUP3(14B0487-06)	1.026	g	6.169	g	14:00	02/24/2014	5.1430	5.638	g	09:34	02/25/2014	4.6120	89.7
MRM	DUP4(14B0487-15)	1.031	g	11.135	g	14:00	02/24/2014	10.1040	9.853	g	09:34	02/25/2014	8.8220	87.3
MRM	DUP5(14B0610-23)	1.038	g	9.025	g	14:01	02/24/2014	7.9870	8.274	g	09:34	02/25/2014	7.2360	90.6
MRM	DUP6(14B0610-24)	1.027	g	7.215	g	14:01	02/24/2014	6.1880	6.743	g	09:35	02/25/2014	5.7160	92.4
MRM	DUP7(14B0633-11)	1.028	g	9.938	g	14:01	02/24/2014	8.9100	9.445	g	09:35	02/25/2014	8.4170	94.5



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DUPLICATES

Slab 55N-35E

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0633
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Laboratory ID:	B090790-DUP7
Batch:	B090790	Initial/Final:	5 g / 5 g
Preparation:	% Solids	Analysis:	SM 2540G
% Solids:	92.90		

ANALYTE	SAMPLE CONCENTRATION (% Wt)	DUPLICATE CONCENTRATION (% Wt)	RPD %	Q	CONTROL LIMIT
% Solids	92.9	94.5	1.71		20

Hold Times for PCBs - 8082

Preservative - Cool < 4C

Hold Time - 7 days to extraction aqueous, 14 days to extraction solids 48 days to analysis aqueous and solids

	Sample Date	Sample ID	Laboratory ID	Matrix	Preservative	Days to Extraction	Date Extracted	Days to Analysis	Date Analyzed	DE	Prep Batch
1	02/20/14	Berm 5N-21 SE	14B0633-01	Solid	OK	4	2/24/14	0	2/24/14	10X	B090777
2	02/20/14	Berm 5N-23 SE	14B0633-02	Solid	OK	4	2/24/14	0	2/24/14	10X	B090777
3	02/20/14	Berm 5N-23 SE	14B0633-03	Solid	OK	4	2/24/14	0	2/24/14	10X	B090777
4	02/20/14	Berm 5N-24 SE	14B0633-04	Solid	OK	4	2/24/14	0	2/24/14	10X	B090777
5	02/20/14	Berm 5N-24 SE	14B0633-05	Solid	OK	4	2/24/14	0	2/24/14	10X	B090777
6	02/21/14	Slab 45N-RF	14B0633-06	Solid	OK	3	2/24/14	1	2/25/14	1000X	B090777
7	02/21/14	Slab 45N-SJ	14B0633-07	Solid	OK	3	2/24/14	0	2/24/14	1X	H090777
8	02/21/14	Slab 45N-15E	14B0633-08	Solid	OK	3	2/24/14	0	2/24/14	1X	B090777
9	02/21/14	Slab 45N-24E	14B0633-09	Solid	OK	3	2/24/14	0	2/24/14	1X	H090777
10	02/21/14	Slab 55N-25E	14B0633-10	Solid	OK	3	2/24/14	0	2/24/14	1X	B090777
11	02/21/14	Slab 55N-25E	14B0633-11	Solid	OK	3	2/24/14	0	2/24/14	1X	B090777

Calculations for PCBs - 8082

LCSD, LPSD Lab limits used for validation unless otherwise noted

Sample	Amount Found	Amount Spiked	%R	FORM 3
LCS	0.2	0.2	100	10
LCSD	0.21	0.2	105.0	106
RPD	4.9		-4.9	4.92

Recovery = (Amount Found)/Amount Spiked*100

RPD = ((LCS-LPSD)/(LCS+LPSD)/2)*100

MS/MSD

Lab limits used for validation unless otherwise noted

Sample	Amount Found	Amount Spiked	%R	FORM 3
MS	0.14	0.19	73.7	-27.5
MSD	0.27	0.19	142.1	16.5
RPD	63.41		-866.67	67.5

Recovery = (Amount Found)/Amount Spiked*100

RPD = ((MS-MSD)/(MS+MSD)/2)*100

Calibration NIG June 2008 PCB criteria used for validation unless otherwise noted
%RSD C1 & C2% Range 0.09

	ICAI	CCV	CCV
Instrument	14P5803-1.2		
Date	3/25/13		
Time			

Initial Calibration Calculation Check

Date	12/ 2/13	Column	2
Instrument	ECD 10	Reported Average CF	6.77E+05
Compound	1260 Peak 1	Calculated Average CF	685030.0300
Column		Reported RSD	6.8700
Reported Average CF	5.62E+05	Calculated RSD	7.4090
Calculated Average CF	566675.0000		
Reported RSD	5.7900		
Calculated RSD	6.1607		
	$(RRF1 + 4 \times RRF2 + RRF3 + 4 \times RRF4 + RRF5) / 5$		
RRF1	6.07E+05	RRF1	7.43E+05
RRF2	5.75E+05	RRF2	6.94E+05
RRF3	5.65E+05	RRF3	6.81E+05
RRF4	5.19E+05	RRF4	6.23E+05
RRF5		RRF5	
SLM	2266700	SLM	2746200
$(\text{Sum}(N-1) / (N-1)) \times S$	36851.18733	$(\text{Sum}(N-1) / (N-1)) \times S$	50.4519766
$(\text{Sum}(N-1) / (N-1)) \times S$	6.085606329	$(\text{Sum}(N-1) / (N-1)) \times S$	6.076089824
N	4	N	4
N-1	3	N-1	3
Reported Amount	519500.00	Reported Amount	622000.00
Calculated Amount	519500.000	Calculated Amount	623000.000
Compound Area (A1)	1.04E+05	Compound Area	1.05E+05
Compound Conc (C1)	200	Compound Conc	200

Continuing Calibration Calculation Check

NFC1 +/- 15% Diff CFs

Date	2/26/ 4
Time	2013
Instrument	ECD 10
Compound	1260 Peak 1
Column	1
Rptd Amt: Peak 1	54.51
Calculated Amount	54.318
Compound Area (A1)	10510154
Compound Conc (C1)	100
CF A1, RRF: Peak 1	5.62E+05
Peak 1	54.134
Peak 2	50.07
Peak 3	51.027
Peak 4	49.725
Peak 5	58.501
Avg Amt: 1250	52.7874
Rpt Amt: 1260	52.80
Exptl Amt: 1260	50
Rptd %D	5.6
Cald %D	-5.6%

Surrogate Calculation Check Lab times used for calculation, unless otherwise noted
NCE 10-150%

SAMPLE: Berm 5N-215L R1

SURR	AMOUNT FOUND	AMOUNT SPIKED	%R	FORM 2
TCX 1	17.869	20	89.3	89.3
TCX 2	15.161	20	80.8	80.8
DCB 1	16.767	20	83.8	81.8
DCB 2	19.836	20	99.2	99.2

Quantitation Calculation Check

Sample Lab ID		Berm 5N-215L	
Compound		PCB 1260	
Final Result mg/Kg		2.7	
Instrument		ECD 10	
Column	Col 1	Col 2	
Peak 1	1.28E+08	1.44E+08	2.27910
CF	5.62E+05	6.79E+05	
Peak 2	2.06E+08	1.68E+08	21.25855
CF	8.94E+05	7.90E+05	
Peak 3	880311.08	96432224	165.5256
CF	5.14E+05	5.83E+05	
Peak 4	2.37E+08	1.76E+08	191.0982
CF	5.60E+05	6.52E+05	
Peak 5	2.45E+08	3.15E+08	249.1154
CF	1.24E+06	1.14E+06	
Avg Conc mg/L	205.9665	Avg Conc mg/L	206.7479
Extract Vol g	10.000	Extract Vol g	10.000
Final Vol mL	10	Final Vol mL	10
DF	10	DF	10
Conversion	0.001	Conversion	0.001
%Solids	0.755	%Solids	0.755
Final Conc mg/Kg	2.717	Final Conc mg/Kg	2.728

Sample Lab ID		Berm 5N-215E	
Compound		PCB 1254	
Final Result mg/Kg		1	
Instrument		ECD 10	
Column	Col 1	Col 2	
Peak 1	32511829	80.8350	44377195
CF	4.02E+05	5.10E+05	
Peak 2	38526610	67.7592	44159215
CF	4.21E+05	5.92E+05	
Peak 3	50905858	76.4145	6235648
CF	7.24E+05	8.40E+05	
Peak 4	40174491	75.3870	0
CF	5.12E+05	1.96E+05	
Peak 5	0	0.0000	0
CF	7.34E+05	7.68E+05	
Avg Conc mg/L	71.6480	Avg Conc mg/L	73.5902
Extract Vol g	10.000	Extract Vol g	10.000
Final Vol mL	10	Final Vol mL	10
DF	10	DF	10
Conversion	0.001	Conversion	0.001
%Solids	0.755	%Solids	0.755
Final Conc mg/Kg	0.972	Final Conc mg/Kg	1.017

Sample Lab ID		Berm 5N-215C	
Compound		PCB 1248	
Final Result mg/Kg		0.54	
Instrument		ECD 10	
Column	Col 1	Col 2	
Peak 1	5.94E+06	6.47E+06	20.5512
CF	2.37E+05	1.15E+05	
Peak 2	8.02E+06	9.56E+06	25.6649
CF	2.69E+05	1.71E+05	
Peak 3	5319281	6747417	14.2229
CF	3.35E+05	4.71E+05	
Peak 4	1.15E+07	1.29E+07	25.6889
CF	5.33E+05	5.61E+05	
Peak 5	4.21E+06	6.00E+06	0.0000
CF	4.40E+05	5.11E+05	
Avg Conc mg/L	25.9679	Avg Conc mg/L	21.5125
Extract Vol g	10.000	Extract Vol g	10.000
Final Vol mL	10	Final Vol mL	10
DF	10	DF	10
Conversion	0.001	Conversion	0.001
%Solids	0.758	%Solids	0.758
Final Conc mg/Kg	0.115	Final Conc mg/Kg	0.284

Compound		Col 1	Col 2	%D Rnd	%D Fnd
Berm 5N-215L		PCB 1260	2.717	2.775	0.4%
		PCB 1254	0.972	1.0167	-5.8%
		PCB 1248	0.535	0.2841	18.0%

2 - FORM II

SYSTEM MONITORING COMPOUND SUMMARY

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory SDG: 14B0633
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Instrument: ECD10

	DCB 1 (30% - 150%)	DCB 2 (30% - 150%)	TCX 1 (30% - 150%)	TCX 2 (30% - 150%)
14B0633-01	83.8	99.2	89.3	80.8
14B0633-02	89.4	95.4	101	93.0
14B0633-03	93.4	106	98.8	89.6
14B0633-04	95.6	125	90.3	82.9
14B0633-05	71.7	104	68.4	61.7
14B0633-06	•	•	•	•
14B0633-07	108	98.8	92.4	81.2
14B0633-08	109	101	93.3	82.4
14B0633-09	117	108	98.1	86.0
14B0633-10	110	100	88.1	77.6
14B0633-11	113	104	76.2	67.1
B090777-BLK1	103	94.9	85.9	77.8
B090777-BS1	112	104	95.2	88.0
B090777-BSD1	114	106	99.3	91.0
B090777-MS1	37.5	34.9	23.3*	20.4*
B090777-MSD1	74.8	70.2	44.9	40.4

5000 X No quals

Data Path : C:\msdchem\1\data\022314\
 Data File : J0223024.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 24 Feb 2014 4:44 pm
 Operator : JMS
 Sample : 14B0633-01@10X TBA Inst : ECD10
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Feb 24 18:22:53 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-020614.M
 Quant Title : 1260/1016 12/12/13 12/05/13
 QLast Update : Wed Jan 29 08:21:39 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.456	2.866	211.0E6	219.9E6	17.869	16.163
Spiked Amount	200.000		Recovery	=	8.93%	8.08%
2) S Decachlor...	6.530	7.192	167.7E6	198.1E6	16.762	19.836
Spiked Amount	200.000		Recovery	=	8.38%	9.92%
Target Compounds						
3) L1 1016{1}	2.975	3.754	2307714	1167994	5.518	5.637
4) L1 1016{2}	0.000	3.918	0	6466040	N.D.	10.430 #
5) L1 1016{3}	3.304	4.103	5644844	1200488	11.070	4.497 #
6) L1 1016{4}	3.441	4.175	1339215	9562759	6.140	38.870 #
7) L1 1016{5}	3.690	4.388	7367132	6727417	25.986	19.133 #
Sum 1016			16658905	25124698	48.714	78.568
Average 1016					12.178	15.714
8) L7 1260{1}	4.597	5.403	127.7E6	144.4E6	227.399	213.323
9) L7 1260{2}	4.811	5.570	205.8E6	167.9E6	240.498	212.532
10) L7 1260{3}	5.118	5.933	88631178	96435224	172.443	165.525
11) L7 1260{4}	5.312	6.152	107.3E6	125.9E6	191.702	193.087
12) L7 1260{5}	5.559	6.319	245.1E6	335.4E6	197.850	249.752 #
Sum 1260			774.5E6	870.0E6	1029.892	1034.218
Average 1260					205.978	206.844

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\msdchem\1\data\022314\
 Data File : J0223024.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 24 Feb 2014 4:44 pm
 Operator : JMB
 Sample : 1480633-01@10X TSA Inst : ECD10
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: F-1254.E
 Integration File signal 2: B-1254.E
 Quant Time: Feb 25 08:44:59 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\10-1254-020614.M
 Quant Title : 1254 01/28/14 09/17/13
 QLast Update : Wed Jan 29 11:51:55 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.456	2.866	211.0E6	219.9E6	17.869	16.163
Spiked Amount	200.000		Recovery	=	8.93%	8.08%
2) S Decachlor...	6.530	7.192	167.7E6	198.1E6	16.762	19.836
Spiked Amount	200.000		Recovery	=	8.38%	9.92%
Target Compounds						
3) L6 1254{1}	3.967	4.722	32511829	44372195	80.830	86.975
4) L6 1254{2}	4.363	4.870	28526610	44159235	67.761	74.593
5) L6 1254{3}	4.458	5.246	50965898	62356481	70.410	74.226
6) L6 1254{4}	4.671	0.000	40174491	0	75.590	N.D. d#
7) L6 1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254			152.2E6	150.9E6	264.591	235.794
Average 1254					✓73.648	78.598

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

48/59/63

CHECKED BY
 KARISSA CASARIN
 FEB 25 2014

Data Path : C:\msdchem\1\data\022314\
 Data File : J0223024.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 24 Feb 2014 4:44 pm
 Operator : JMB
 Sample : I4B0633-01@10X TBA Inst : ECD10
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: F-1254.E
 Integration File signal 2: B-1254.E
 Quant Time: Feb 24 18:29:36 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\10-1254-020614.M
 Quant Title : 1254 01/28/14 09/17/13
 QLast Update : Wed Jan 29 11:51:55 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) S Tetrachlo...	2.456	2.866	211.0E6	219.9E6	17.869	16.163
Spiked Amount	200.000		Recovery	=	8.93%	8.08%
2) S Decachlor...	6.530	7.192	167.7E6	198.1E6	16.762	19.836
Spiked Amount	200.000		Recovery	=	8.38%	9.92%
Target Compounds						
3) L6 1254{1}	3.967	4.722	32511829	44372195	80.830	86.975
4) L6 1254{2}	4.363	4.870	28526610	44159235	67.761	74.593
5) L6 1254{3}	4.458	5.246	50965898	62356481	70.410	74.226
6) L6 1254{4}	4.671	5.570	40174491	167.9E6	75.590	423.407 #
7) L6 1254{5}	5.028	5.866	273.1E6	273.9E6	348.225	356.494
Sum 1254			425.3E6	592.6E6	642.816	1015.694
Average 1254					128.563	203.139

{f}=RT Delta > 1/2 Window {#}=Amounts differ by > 25% {m}=manual int.

Data Path : C:\msdchem\1\data\022314\
 Data File : J0223024.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 24 Feb 2014 4:44 pm
 Operator : JMB
 Sample : 14B0633-01@10X TBA Inst : ECD10
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: F-1248.E
 Integration File signal 2: B-1248.E
 Quant Time: Feb 25 08:44:19 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\10-1248-020614.M
 Quant Title : 1248 11/23/13 08/29/13
 QLast Update : Thu Jan 30 08:58:45 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.456	2.866	211.0E6	219.9E6	17.869	16.163
Spiked Amount	200.000		Recovery	=	8.93%	8.08%
2) S Decachlor...	6.530	7.192	167.7E6	198.1E6	16.762	19.836
Spiked Amount	200.000		Recovery	=	8.38%	9.92%
Target Compounds						
3) L5 1248{1}	3.304	3.918	5644844	6466040	23.845	20.556
4) L5 1248{2}	3.530	4.175	8015356	9562759	29.814m	25.668
5) L5 1248{3}	3.690	4.388	6339181	6727417	17.862m	14.223
6) L5 1248{4}	4.000	4.687	11514578	12877862	34.573	25.691 #
7) L5 1248{5}	4.017	0.000	9212150	0	20.930	N.D. d#
Sum 1248			40726108	35634078	127.023	86.138
Average 1248					✓ 25.405	21.535

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Berm 5N-215E

Lab Sample ID: 14B0633-01 Date(s) Analyzed: 02/24/2014 02/24/2014
 Instrument ID (1): ECD10 Instrument ID (2): ECD10
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	0.34	
	2	0.00	0.00	0.00	0.28	17.9
Aroclor-1254	1	0.00	0.00	0.00	0.97	
	2	0.00	0.00	0.00	1.0	2.8
Aroclor-1260	1	0.00	0.00	0.00	2.7	
	2	0.00	0.00	0.00	2.7	0.7



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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Bern 5N-225E

Lab Sample ID: 1480633-02 Date(s) Analyzed: 02/24/2014 02/24/2014
 Instrument ID (1): ECD10 Instrument ID (2): ECD10
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	0.19	
	2	0.00	0.00	0.00	0.16	18.2
Aroclor-1254	1	0.00	0.00	0.00	0.56	
	2	0.00	0.00	0.00	0.56	0.4
Aroclor-1260	1	0.00	0.00	0.00	1.4	
	2	0.00	0.00	0.00	1.4	2.2



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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Berm 5N-235E

Lab Sample ID: 14B0633-03 Date(s) Analyzed: 02/24/2014 02/24/2014
 Instrument ID (1): ECD10 Instrument ID (2): ECD10
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	0.46	
	2	0.00	0.00	0.00	0.48	3.2
Aroclor-1260	1	0.00	0.00	0.00	1.5	
	2	0.00	0.00	0.00	1.5	2.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Berm 5N-245E

Lab Sample ID: 1480633-04 Date(s) Analyzed: 02/24/2014 02/24/2014
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	0.93	
	2	0.00	0.00	0.00	0.85	8.8
Aroclor-1260	1	0.00	0.00	0.00	3.5	
	2	0.00	0.00	0.00	3.5	0.3

✓



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***Barn 10N-245E**

Lab Sample ID: 14B0633-05 Date(s) Analyzed: 02/24/2014 02/24/2014
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	0.24	
	2	0.00	0.00	0.00	0.19	22.4
Aroclor-1254	1	0.00	0.00	0.00	0.67	
	2	0.00	0.00	0.00	0.64	4.9
Aroclor-1260	1	0.00	0.00	0.00	2.6	
	2	0.00	0.00	0.00	2.6	0.8



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

EXC 60N-BE

SW-846 8082A

Lab Sample ID: 14B0633-06 Date(s) Analyzed: 02/25/2014 02/25/2014
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	6100	
	2	0.00	0.00	0.00	6500	5.5



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Slab 45N-5E***SW-846 8082A*

Lab Sample ID: 14B0633-07 Date(s) Analyzed: 02/24/2014 02/24/2014
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.082	
	2	0.00	0.00	0.00	0.079	3.7



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***Slab 45N-15E**

Lab Sample ID: 14B0633-08 Date(s) Analyzed: 02/24/2014 02/24/2014
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.15	
	2	0.00	0.00	0.00	0.15	3.3

✓



250

65

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Slab 45N-25E

SW-846 8082A

Lab Sample ID: 14B0633-09 Date(s) Analyzed: 02/24/2014 02/24/2014
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.20	
	2	0.00	0.00	0.00	0.19	4.6

✓



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Slab 55N-25E***SW-846 8082A*

Lab Sample ID: 14B0633-10 Date(s) Analyzed: 02/24/2014 02/24/2014
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.038	
	2	0.00	0.00	0.00	0.039	1.3



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Slab 55N-35E

SW-846 8082A

Lab Sample ID: 14B0633-11 Date(s) Analyzed: 02/24/2014 02/24/2014
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.22	
	2	0.00	0.00	0.00	0.19	12.8



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3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Slab 55N-35E

Laboratory: Con-Test Analytical Laboratory

Work Order: 14B0633

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Analysis: SW-846 8082A

Batch: B090777

Preparation: SW-846 3546

% Solids: 92.90

Laboratory ID: B090777-MS1

Initial/Final: 10 g / 10 mL

Sample Lab ID: 14B0633-11

Column: 2

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	0.215	ND	0.055	25.7	40 - 140
Aroclor-1260 [2C]	0.215	0.19	0.14	-27.5	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	REC.
Aroclor-1016 [2C]	0.215	0.11	51.3	66.5	30	40 - 140
Aroclor-1260 [2C]	0.215	0.27	36.5	67.3	30	40 - 140



275

69

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1 - FORM I ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090777-MS1 File ID: J0223045.D
Sampled: Prepared: 02/24/14 08:05 Analyzed: 02/24/14 22:48
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090777 Sequence: S005575 Calibration: 1400042 Instrument: ECD10
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.062	0.0067	0.022	MS-23
11096-82-5	Aroclor-1260	0.14	0.010	0.022	MS-07A, R-06



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**1 - FORM I
ANALYSIS DATA SHEET****Matrix Spike**

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090777-MS1 File ID: J0223045.D
Sampled: Prepared: 02/24/14 08:05 Analyzed: 02/24/14 22:48
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090777 Sequence: S005575 Calibration: 1400042 Instrument: ECD10
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.055	0.0067	0.022	MS-23
11096-82-5	Aroclor-1260 [2C]	0.14	0.010	0.022	MS-07A, R-06

71

Data Path : C:\msdchem\1\data\022314\
 Data File : J0223045.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 24 Feb 2014 10:48 pm
 Operator : JMB
 Sample : B090777-MS1@TBA Inst : ECD10
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Feb 25 08:16:06 2014
 Quant Method : C:\msdchem\1\methods\PC3 Methods\10-1260-020614.M
 Quant Title : 1260/1016 12/12/13 12/05/13
 QLast Update : Wed Jan 29 08:21:39 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.455	2.865	550.4E6	554.9E6	46.616	40.788
Spiked Amount	200.000		Recovery	=	23.31%	20.39%
2) S Decachlor...	6.528	7.190	750.1E6	696.2E6	74.965	69.729
Spiked Amount	200.000		Recovery	=	37.48%	34.86%
Target Compounds						
3) L1 1016{1}	2.973	3.754	22156891	10024833	52.975	48.384
4) L1 1016{2}	3.117	3.917	8835733	34469244	54.013	55.602
5) L1 1016{3}	3.301	4.102	32239658	13751937	63.227	51.513
6) L1 1016{4}	3.439	4.174	13178756	12368963	60.421	50.277
7) L1 1016{5}	3.688	4.387	16717101	18122430	58.966	51.540
Sum 1016			93128139	88737407	289.602	257.316
Average 1016					57.920	51.463
8) L7 1260{1}	4.594	5.401	76411133	82574688	136.025	122.004
9) L7 1260{2}	4.809	5.568	84094262	66282925	98.294	83.925
10) L7 1260{3}	5.115	5.932	66340025	73482555	129.073	126.128
11) L7 1260{4}	5.309	6.151	86053459	99781936	153.697	153.035
12) L7 1260{5}	5.537	6.318	149.0E6	195.9E6	120.330	145.873
Sum 1260			461.9E6	518.0E6	637.420	630.964
Average 1260					127.484	126.193

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

126.193
~~630.964~~ * 10 = 6.309
 10 * 126.193

CHECKED BY:
 JESSA CAGAN
 FEB 25 2014

1 - FORM I

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0633
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: B090777-MSD1 File ID: J0223046.D
 Sampled: Prepared: 02/24/14 08:05 Analyzed: 02/24/14 23:06
 Solids: Preparation: SW-846 3546 Dilution:
 Batch: B090777 Sequence: S005575 Calibration: 1400042 Instrument: ECD10
 Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.13	0.0067	0.022	R-06
11096-82-5	Aroclor-1260	0.28	0.010	0.022	R-06, MS-07A

1 - FORM I
ANALYSIS DATA SHEET**Matrix Spike Dup**

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090777-MSD1 File ID: J0223046.D
Sampled: Prepared: 02/24/14 08:05 Analyzed: 02/24/14 23:06
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090777 Sequence: S005575 Calibration: 1400042 Instrument: ECD10
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.11	0.0067	0.022	R-06
11096-82-5	Aroclor-1260 [2C]	0.27	0.010	0.022	R-06, MS-07A

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory

Work Order: 14B0633

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Preparation: SW-846 3546

Batch: B090777

Laboratory ID: B090777-BS1

Column: 1

Initial/Final: 10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	0.200	0.20	99.7	40 - 140
Aroclor-1260	0.200	0.20	101	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016	0.200	0.21	104	4.04	30	40 - 140
Aroclor-1260	0.200	0.21	106	4.52	30	40 - 140

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory

Work Order: 14B0633

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Preparation: SW-846 3546

Batch: B090777

Laboratory ID: B090777-BS1

Column: 2

Initial/Final: 10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	0.200	0.18	90.5	40 - 140
Aroclor-1260 [2C]	0.200	0.20	98.2	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016 [2C]	0.200	0.19	94.6	4.41	30	40 - 140
Aroclor-1260 [2C]	0.200	0.21	103	4.98	30	40 - 140



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1 - FORM I
ANALYSIS DATA SHEET
LCS

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090777-BS1 File ID: J0223020.0
Sampled: Prepared: 02/24/14 08:05 Analyzed: 02/24/14 15:55
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090777 Sequence: S005575 Calibration: 1400042 Instrument: ECD10
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.20	0.031	0.10	
11096-82-6	Aroclor-1260	0.20	0.048	0.10	

1 - FORM I

ANALYSIS DATA SHEET

LCS

Laboratory: Con-Test Analytical Laboratory
 Client: WSP
 Matrix: Soil
 Sampled:
 Solids:
 Batch: B090777
 Column: 2
 Laboratory ID: B090777-BS1
 Prepared: 02/24/14 08:05
 Preparation: SW-846 3546
 Sequence: S005575
 Calibration: 1400042
 Work Order: 14B0633
 Project: 5140 Site - Yorkville, NY-PCB
 File ID: J0223020.D
 Analyzed: 02/24/14 15:55
 Dilution:
 Instrument: ECD10

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.18	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.20	0.048	0.10	

Data Path : C:\msdchem\1\data\022314\
 Data File : J0223020.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 24 Feb 2014 3:55 pm
 Operator : JMB
 Sample : B090777-BS105X TBA Inst : ECD10
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Feb 24 18:22:38 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-020614.M
 Quant Title : 1260/1016 12/12/13 12/05/13
 Qlast Update : Wed Jan 29 08:21:39 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.456	2.865	449.7E6	478.9E6	38.089	35.204
Spiked Amount	200.000		Recovery	=	19.04%	17.60%
2) S Decachlor...	6.531	7.192	449.2E6	414.8E6	44.893	41.543
Spiked Amount	200.000		Recovery	=	22.45%	20.77%
Target Compounds						
3) L1 1016{1}	2.975	3.753	15863589	7530795	37.928	36.347
4) L1 1016{2}	3.118	3.918	6832562	23165953	41.768	37.369
5) L1 1016{3}	3.303	4.103	20904253	9294134	40.997	34.815
6) L1 1016{4}	3.441	4.176	8512392	8993317	39.027	36.556
7) L1 1016{5}	3.690	4.389	11222558	12612383	39.585	35.869
Sum 1016			63335353	61596582	199.305	180.956
Average 1016					39.861	36.191
8) L7 1260{1}	4.597	5.403	22464988	26318591	39.992	38.886
9) L7 1260{2}	4.813	5.571	32409380	30205803	37.882	38.245
10) L7 1260{3}	5.119	5.934	21589743	22770179	42.006	39.084
11) L7 1260{4}	5.313	6.153	22542344	25778216	40.262	39.536
12) L7 1260{5}	5.561	6.320	51602028	54501340	41.661	40.578
Sum 1260			150.6E6	159.6E6	201.803	196.329
Average 1260					40.361	39.266

CHECKED BY:
KARISSA CACAM

FEB 25 2014

{f}=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

20.1505
 40.361

 20

1 - FORM I

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0633
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: B090777-BSD1 File ID: J0223021.D
 Sampled: Prepared: 02/24/14 08:05 Analyzed: 02/24/14 16:07
 Solids: Preparation: SW-846 3546 Dilution:
 Batch: B090777 Sequence: S005575 Calibration: 1400042 Instrument: ECD10
 Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.21	0.031	0.10	
11096-82-5	Aroclor-1260	0.21	0.048	0.10	

1 - FORM I

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090777-BSD1 File ID: J0223021.D
Sampled: Prepared: 02/24/14 08:05 Analyzed: 02/24/14 16:07
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090777 Sequence: S005575 Calibration: 1400042 Instrument: ECD10
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.19	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.21	0.048	0.10	

4 - FORM IV

METHOD BLANK SUMMARY

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory

Work Order: 14B0633

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Blank ID: B090777-BLK1

Batch: B090777

Prepared: 02/24/2014 08:05

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
Matrix Spike Dup	B090777-MSD1	J0223046.D	23:06
Matrix Spike	B090777-MS1	J0223045.D	22:48
LCS Dup	B090777-BSD1	J0223021.D	16:07
LCS	B090777-BS1	J0223020.D	15:55
Slab 55N-35E	14B0633-11	J0223044.D	22:31
Slab 55N-25E	14B0633-10	J0223043.D	22:13
Slab 45N-25E	14B0633-09	J0223042.D	21:56
Slab 45N-15E	14B0633-08	J0223041.D	21:38
Slab 45N-5E	14B0633-07	J0223040.D	21:21
EXC 60N-8E	14B0633-06	J0223052.D	08:52
Berm 10N-245E	14B0633-05	J0223028.D	17:55
Berm 5N-245E	14B0633-04	J0223038.D	20:46
Berm 5N-235E	14B0633-03	J0223026.D	17:20
Berm 5N-225E	14B0633-02	J0223025.D	17:02
Berm 5N-215E	14B0633-01	J0223024.D	16:44

1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090777-BLK1 File ID: J0223019.D
Sampled: Prepared: 02/24/14 08:05 Analyzed: 02/24/14 15:42
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090777 Sequence: S005575 Calibration: 1400042 Instrument: ECD10
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0062	0.020	
11104-28-2	Aroclor-1221		0.020	0.020	
11141-16-5	Aroclor-1232		0.012	0.020	
53469-21-9	Aroclor-1242		0.010	0.020	
12672-29-6	Aroclor-1248		0.012	0.020	
11097-69-1	Aroclor-1254		0.0086	0.020	
11096-82-5	Aroclor-1260		0.0096	0.020	
37324-23-5	Aroclor-1262		0.0082	0.020	
11100-14-4	Aroclor-1268		0.012	0.020	

✓

1 - FORM I

ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0633
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: B090777-BLK1 File ID: J0223019.D
 Sampled: Prepared: 02/24/14 08:05 Analyzed: 02/24/14 15:42
 Solids: Preparation: SW-846 3546 Dilution:
 Batch: B090777 Sequence: S005575 Calibration: 1400042 Instrument: ECD10
 Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]		0.0062	0.020	
11104-28-2	Aroclor-1221 [2C]		0.020	0.020	
11141-16-5	Aroclor-1232 [2C]		0.012	0.020	
53469-21-9	Aroclor-1242 [2C]		0.010	0.020	
12672-29-6	Aroclor-1248 [2C]		0.012	0.020	
11097-69-1	Aroclor-1254 [2C]		0.0086	0.020	
11096-82-5	Aroclor-1260 [2C]		0.0096	0.020	
37324-23-5	Aroclor-1262 [2C]		0.0082	0.020	
11100-14-4	Aroclor-1268 [2C]		0.012	0.020	

PREPARATION BENCH SHEET

287

B090777

Con-Test Analytical Laboratory

Printed: 3/12/2014 3:54:08PM

Surrogate used: 1402112

Prepared using: SY-GC - SW-846 3546

Matrix: Soil

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	Spike	Location	Client	Extraction Comments
14B0633-01	8082	02/24/14	10	10				Walk in door 1	WSP	Soils run undilute - Report to MDL
14B0633-02	8082	02/24/14	10	10				Walk in door 1	WSP	Soils run undilute - Report to MDL
14B0633-03	8082	02/24/14	10	10				Walk in door 1	WSP	Soils run undilute - Report to MDL
14B0633-04	8082	02/24/14	10.1	10				Walk in door 1	WSP	Soils run undilute - Report to MDL
14B0633-05	8082	02/24/14	10	10				Walk in door 1	WSP	Soils run undilute - Report to MDL
14B0633-06	8082	02/24/14	10	10				Walk in door 1	WSP	Soils run undilute - Report to MDL
14B0633-07	8082	02/24/14	10	10				Walk in door 1	WSP	Soils run undilute - Report to MDL
14B0633-08	8082	02/24/14	10	10				Walk in door 1	WSP	Soils run undilute - Report to MDL
14B0633-09	8082	02/24/14	10.1	10				Walk in door 1	WSP	Soils run undilute - Report to MDL
14B0633-10	8082	02/24/14	10	10				Walk in door 1	WSP	Soils run undilute - Report to MDL
14B0633-11	8082	02/24/14	10	10				Walk in door 1	WSP	Soils run undilute - Report to MDL
B090777-B1 K1	QC	02/24/14	10	10						
B090777-B5	QC	02/24/14	10	10	1402138		1000			
B090777-B5DI	QC	02/24/14	10	10	1402138		1000			
B090777-M5	QC	02/24/14	10	10	1402138	14B0633-11	1000			
B090777-M5DI	QC	02/24/14	10	10	1402138	14B0633-11	1000			

Spiking Witnessed By _____ Date _____ Preparation Reviewed By _____ Date _____ Extracts Received By _____ Date _____

84

Analysis Log

Date	Filename	Lab ID	Sample Info
23 Feb 2014	7:40 am J0223001.D	ISO	
23 Feb 2014	7:52 am J0223002.D	ISO	
23 Feb 2014	8:05 am J0223003.D	ISO	
23 Feb 2014	8:17 am J0223004.D	1260/1016 100	1312045
23 Feb 2014	8:29 am J0223005.D	1254 100	1309167
23 Feb 2014	8:42 am J0223006.D	1248 100	1308296
23 Feb 2014	8:54 am J0223007.D	1242 100	1308268
23 Feb 2014	9:07 am J0223008.D	1232/1268 100	1312248
23 Feb 2014	9:19 am J0223009.D	1221/1262 100	1401037
23 Feb 2014	9:32 am J0223010.D	ISO	
24 Feb 2014	8:13 am J0223011.D	ISO	
24 Feb 2014	8:26 am J0223012.D	ISO	
24 Feb 2014	8:38 am J0223013.D	1260/1016 100	
24 Feb 2014	1:02 pm J0223014.D	ISO	
24 Feb 2014	1:15 pm J0223015.D	14B0513-01@2X	
24 Feb 2014	1:27 pm J0223016.D	ISO	
24 Feb 2014	1:40 pm J0223017.D	1260/1016 50	
24 Feb 2014	3:30 pm J0223018.D	ISO	
24 Feb 2014	3:42 pm J0223019.D	B090777-BLK1@TBA	
24 Feb 2014	3:55 pm J0223020.D	B090777-BS1@5X TBA	
24 Feb 2014	4:07 pm J0223021.D	B090777-BSD1@5X TBA	
24 Feb 2014	4:19 pm J0223022.D	ISO	
24 Feb 2014	4:32 pm J0223023.D	1260/1016 100	
24 Feb 2014	4:44 pm J0223024.D	14B0633-01@10X TBA	
24 Feb 2014	5:02 pm J0223025.D	14B0633-02@10X TBA	
24 Feb 2014	5:20 pm J0223026.D	14B0633-03@10X TBA	
24 Feb 2014	5:37 pm J0223027.D	14B0633-04@10X TBA	
24 Feb 2014	5:55 pm J0223028.D	14B0633-05@10X TBA	
24 Feb 2014	6:12 pm J0223029.D	14B0633-06@10X TBA	
24 Feb 2014	6:30 pm J0223030.D	14B0633-07@10X TBA	
24 Feb 2014	6:47 pm J0223031.D	14B0633-08@10X TBA	
24 Feb 2014	7:05 pm J0223032.D	14B0633-09@10X TBA	
24 Feb 2014	7:22 pm J0223033.D	14B0633-10@10X TBA	
24 Feb 2014	7:40 pm J0223034.D	14B0633-11@10X TBA	
24 Feb 2014	7:58 pm J0223035.D	ISO	
24 Feb 2014	8:16 pm J0223036.D	ISO	
24 Feb 2014	8:33 pm J0223037.D	1260/1016 50	
24 Feb 2014	8:46 pm J0223038.D	14B0633-04@20X TBA	
24 Feb 2014	9:03 pm J0223039.D	14B0633-06@10000X TBA	
24 Feb 2014	9:21 pm J0223040.D	14B0633-07@TBA	
24 Feb 2014	9:38 pm J0223041.D	14B0633-08@TBA	
24 Feb 2014	9:56 pm J0223042.D	14B0633-09@TBA	
24 Feb 2014	10:13 pm J0223043.D	14B0633-10@TBA	
24 Feb 2014	10:31 pm J0223044.D	14B0633-11@TBA	
24 Feb 2014	10:48 pm J0223045.D	B090777-MS1@TBA	
24 Feb 2014	11:06 pm J0223046.D	B090777-MSD1@TBA	
24 Feb 2014	11:24 pm J0223047.D	ISO	
24 Feb 2014	11:41 pm J0223048.D	ISO	
24 Feb 2014	11:59 pm J0223049.D	1260/1016 100	
25 Feb 2014	8:27 am J0223050.D	ISO	
25 Feb 2014	8:40 am J0223051.D	1260/1016 100	
25 Feb 2014	8:52 am J0223052.D	14B0633-06@50000X	
25 Feb 2014	9:05 am J0223053.D	ISO	
25 Feb 2014	9:17 am J0223054.D	1260/1016 50	

26

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 10-1260-121213C.M
 Title : 1260/1016 12/12/13 12/05/13
 Last Update : Thu Dec 12 15:41:50 2013
 Response Via : Initial Calibration

Calibration Files

5 =J1212011.D 10 =J1212012.D 20 =J1212013.D
 50 =J1212014.D 100 =J1212015.D 200 =J1212016.D

	Compound	5	10	20	50	100	200	Avg	%RSD
1)	S Tetrachloro-m...	1.146	1.150	1.151	1.195	1.237	1.181	1.181	27 2.90
2)	S Decachlorobip...	1.047	1.011	0.981	1.000	1.017	0.943	1.001	27 3.22
3)	L1 1016(1)			4.594	4.278	4.240	3.889	4.183	E5 6.98
4)	L1 1016(2)			1.777	1.685	1.649	1.561	1.636	E5 6.45
5)	L1 1016(3)			5.196	5.048	5.146	5.013	5.099	E5 1.44
6)	L1 1016(4)			2.280	2.214	2.211	2.086	2.181	E5 3.64
7)	L1 1016(5)			3.045	2.935	2.856	2.627	2.835	E5 5.93
8)	L7 1260(1)			6.074	5.750	5.650	5.193	5.617	E5 5.94
9)	L7 1260(2)			9.084	8.650	8.660	8.002	8.555	E5 4.66
10)	L7 1260(3)			5.527	5.239	5.203	4.746	5.140	E5 5.70
11)	L7 1260(4)			5.966	5.734	5.638	5.182	5.599	E5 5.23
12)	L7 1260(5)			1.225	1.233	1.279	1.187	1.239	E6 2.96

Signal #2 Calibration Files

5 =J1212011.D 10 =J1212012.D 20 =J1212013.D
 50 =J1212014.D 100 =J1212015.D 200 =J1212016.D

	Compound	5	10	20	50	100	200	Avg	%RSD
1)	S Tetrachloro-m...	1.395	1.378	1.353	1.365	1.386	1.315	1.360	E7 2.15
2)	S Decachlorobip...	1.088	1.024	0.972	0.974	1.009	0.925	0.998	E7 5.10
3)	L1 1016(1)			2.308	2.179	2.085	1.896	2.072	E5 8.71
4)	L1 1016(2)			6.652	6.220	6.200	5.922	6.199	E5 4.57
5)	L1 1016(3)			2.873	2.735	2.691	2.501	2.670	E5 5.59
6)	L1 1016(4)			2.778	2.589	2.465	2.232	2.460	E5 9.53
7)	L1 1016(5)			3.812	3.747	3.525	3.222	3.516	E5 7.60
8)	L7 1260(1)			7.426	6.939	6.808	6.229	6.768	E5 6.87
9)	L7 1260(2)			8.662	8.088	7.967	7.248	7.898	E5 6.90
10)	L7 1260(3)			6.475	5.981	5.865	5.295	5.826	E5 7.80
11)	L7 1260(4)			7.094	6.687	6.614	5.957	6.520	E5 6.67
12)	L7 1260(5)			1.394	1.356	1.374	1.260	1.343	E6 3.84

(#) = Out of Range ### Number of calibration levels exceeded format ###

Data Path : C:\msdchem\1\data\121213\
 Data File : J1212019.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Dec 2013 3:24 pm
 Operator : JMB
 Sample : ICV STD 60/16 Inst : ECD10
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: E-1260.E
 Quant Time: Dec 12 15:43:36 2013
 Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-121213C.M
 Quant Title : 1260/1016 12/12/13 12/05/13
 QLast Update : Thu Dec 12 15:41:50 2013
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) S Tetrachlo...	2.901	3.328	1230.1E6	1398.5E6	104.189	102.797
Spiked Amount	200.000		Recovery	=	52.09%	51.40%
2) S Decachlor...	6.973	7.667	1017.9E6	1009.7E6	101.723	101.128
Spiked Amount	200.000		Recovery	=	50.86%	50.56%
Target Compounds						
3) L1 1016(1)	3.449	4.275	42474683	21364313	101.553	103.113
4) L1 1016(2)	3.607	4.444	16462459	63456463	100.635	102.361
5) L1 1016(3)	3.804	4.640	52813648	27261697	103.576	102.119
6) L1 1016(4)	3.952	4.711	23651023	24665908	108.434	100.261
7) L1 1016(5)	4.215	4.937	28654220	35583531	101.072	101.199
Sum 1016			164.1E6	172.3E6	515.270	509.054
Average 1016					103.054	101.811
8) L7 1260(1)	5.162	5.973	55628652	67784508	99.029	100.151
9) L7 1260(2)	5.382	6.122	85850339	78348595	100.347	99.202
10) L7 1260(3)	5.698	6.436	51219873	57895710	99.655	99.374
11) L7 1260(4)	5.894	6.630	57091489	65633597	101.969	100.662
12) L7 1260(5)	6.122	6.775	126.6E6	137.8E6	102.218	102.589
Sum 1260			376.4E6	407.5E6	503.217	501.978
Average 1260					100.643	100.396

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 10-1260-121213C.M
 Title : 1260/1016 12/12/13 12/05/13
 Last Update : Thu Dec 12 15:41:50 2013
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\121213\J1212011.D
2	10	10	0	C:\msdchem\1\data\121213\J1212012.D
3	20	20	0	C:\msdchem\1\data\121213\J1212013.D
4	50	50	0	C:\msdchem\1\data\121213\J1212014.D
5	100	100	0	C:\msdchem\1\data\121213\J1212015.D
6	200	200	0	C:\msdchem\1\data\121213\J1212016.D
7	250	250	0	C:\msdchem\1\data\121213\J1212017.D

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Dec 12 15:41 2013	Dec 12 15:41 2013	12 Dec 2013 1:45 pm
2	10	Dec 12 15:41 2013	Dec 12 15:41 2013	12 Dec 2013 1:57 pm
3	20	Dec 12 15:41 2013	Dec 12 15:41 2013	12 Dec 2013 2:10 pm
4	50	Dec 12 15:41 2013	Dec 12 15:41 2013	12 Dec 2013 2:22 pm
5	100	Dec 12 15:41 2013	Dec 12 15:41 2013	12 Dec 2013 2:34 pm
6	200	Dec 12 15:41 2013	Dec 12 15:41 2013	12 Dec 2013 2:47 pm
7	250	Dec 12 15:41 2013	Dec 12 15:41 2013	12 Dec 2013 2:59 pm

10-1260-121213C.M Thu Dec 12 15:43:44 2013

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 10-1254-012814C.M
 Title : 1254 01/28/14 09/17/13
 Last Update : Wed Jan 29 11:51:55 2014
 Response Via : Initial Calibration

Calibration Files

5 =J1212011.D 10 =J1212012.D 20 =J1212013.D
 50 =J1212014.D 100 =J1212015.D 200 =J1212016.D

Compound	5	10	20	50	100	200	Avg	%RSD
1) S Tetrachloro-m...	1.146	1.150	1.151	1.195	1.237	1.181	1.181 E7	2.90
2) S Decachlorobip...	1.047	1.011	0.981	1.000	1.017	0.943	1.001 E7	3.22
3) L6 1254{1}			4.292	3.980	3.958	3.941	4.022 E5	3.77
4) L6 1254{2}			4.312	4.118	4.166	4.208	4.210 E5	1.76
5) L6 1254{3}			7.317	6.985	7.158	7.328	7.238 E5	2.32
6) L6 1254{4}			5.366	5.183	5.235	5.357	5.315 E5	1.93
7) L6 1254{5}			7.958	7.626	7.712	7.903	7.843 E5	2.12

Signal #2 Calibration Files

5 =J1212011.D 10 =J1212012.D 20 =J1212013.D
 50 =J1212014.D 100 =J1212015.D 200 =J1212016.D

Compound	5	10	20	50	100	200	Avg	%RSD
1) S Tetrachloro-m...	1.395	1.378	1.353	1.365	1.386	1.315	1.360 E7	2.15
2) S Decachlorobip...	1.088	1.024	0.972	0.974	1.009	0.925	0.998 E7	5.10
3) L6 1254{1}			5.697	5.127	4.990	4.873	5.102 E5	6.92
4) L6 1254{2}			6.743	5.895	5.730	5.644	5.920 E5	8.01
5) L6 1254{3}			9.069	8.317	8.297	8.193	8.401 E5	4.54
6) L6 1254{4}			4.519	3.947	3.890	3.765	3.964 E5	8.20
7) L6 1254{5}			7.967	7.307	7.311	8.675	7.683 E5	8.30

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 10-1254-012814C.M
 Title : 1254 01/28/14 09/17/13
 Last Update : Wed Jan 29 11:51:55 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\Users\ECD10.CONTEST\Desktop\Curves\121213\J1212011.D
2	10	10	0	C:\Users\ECD10.CONTEST\Desktop\Curves\121213\J1212012.D
3	20	20	0	C:\Users\ECD10.CONTEST\Desktop\Curves\121213\J1212013.D
4	50	50	0	C:\Users\ECD10.CONTEST\Desktop\Curves\121213\J1212014.D
5	100	100	0	C:\Users\ECD10.CONTEST\Desktop\Curves\121213\J1212015.D
6	200	200	0	C:\Users\ECD10.CONTEST\Desktop\Curves\121213\J1212016.D
7	250	250	0	C:\Users\ECD10.CONTEST\Desktop\Curves\121213\J1212017.D

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Jan 29 11:51 2014	Jan 29 11:51 2014	12 Dec 2013 1:45 pm
2	10	Jan 29 11:51 2014	Jan 29 11:51 2014	12 Dec 2013 1:57 pm
3	20	Jan 29 11:51 2014	Jan 29 11:51 2014	12 Dec 2013 2:10 pm
4	50	Jan 29 11:51 2014	Jan 29 11:51 2014	12 Dec 2013 2:22 pm
5	100	Jan 29 11:51 2014	Jan 29 11:51 2014	12 Dec 2013 2:34 pm
6	200	Jan 29 11:51 2014	Jan 29 11:51 2014	12 Dec 2013 2:47 pm
7	250	Jan 29 11:51 2014	Jan 29 11:51 2014	12 Dec 2013 2:59 pm

10-1254-012814C.M Wed Jan 29 11:55:00 2014

91

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 10-1248-112313C.M
 Title : 1248 11/23/13 08/29/13
 Last Update : Mon Nov 25 11:04:20 2013
 Response Via : Initial Calibration

Calibration Files

5 =J1123011.D 10 =J1123012.D 20 =J1123013.D
 50 =J1123014.D 100 =J1123015.D 200 =J1123016.D

	Compound	5	10	20	50	100	200	Avg	%RSD
1) S	Tetrachloro-m...	1.069	1.064	1.230	1.305	1.286	1.286	1.218	E7 8.71
2) S	Decachlorobip...	0.980	0.922	0.998	1.011	1.026	1.038	1.001	E7 4.03
3) L5	1248(1)			2.456	2.339	2.435	2.313	2.367	E5 3.10
4) L5	1248(2)			2.886	2.689	2.782	2.559	2.688	E5 5.60
5) L5	1248(3)			3.735	3.460	3.659	3.458	3.549	E5 3.90
6) L5	1248(4)			3.172	3.016	3.494	3.460	3.330	E5 6.70
7) L5	1248(5)			4.769	4.295	4.631	4.204	4.401	E5 6.49

Signal #2 Calibration Files

5 =J1123011.D 10 =J1123012.D 20 =J1123013.D
 50 =J1123014.D 100 =J1123015.D 200 =J1123016.D

	Compound	5	10	20	50	100	200	Avg	%RSD
1) S	Tetrachloro-m...	1.332	1.305	1.485	1.528	1.483	1.470	1.439	E7 5.90
2) S	Decachlorobip...	1.076	0.974	1.038	1.082	1.061	1.072	1.056	E7 3.81
3) L5	1248(1)			3.326	3.303	3.254	3.039	3.146	E5 7.02
4) L5	1248(2)			4.196	3.758	3.797	3.473	3.726	E5 8.43
5) L5	1248(3)			5.151	4.696	4.848	4.509	4.730	E5 6.01
6) L5	1248(4)			5.170	4.902	5.190	4.911	5.013	E5 3.05
7) L5	1248(5)			6.210	6.266	6.376	5.901	6.111	E5 4.03

(#) = Out of Range ### Number of calibration levels exceeded format ###

92

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 10-1248-112313C.M
 Title : 1248 11/23/13 08/29/13
 Last Update : Mon Nov 25 11:04:23 2013
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\112313\J1123011.D
2	10	10	0	C:\msdchem\1\data\112313\J1123012.D
3	20	20	0	C:\msdchem\1\data\112313\J1123013.D
4	50	50	0	C:\msdchem\1\data\112313\J1123014.D
5	100	100	0	C:\msdchem\1\data\112313\J1123015.D
6	200	200	0	C:\msdchem\1\data\112313\J1123016.D
7	250	250	0	C:\msdchem\1\data\112313\J1123017.D

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Nov 25 11:04 2013	Nov 25 10:52 2013	23 Nov 2013 9:36 pm
2	10	Nov 25 11:04 2013	Nov 25 10:52 2013	23 Nov 2013 9:48 pm
3	20	Nov 25 11:04 2013	Nov 25 10:52 2013	23 Nov 2013 10:00 pm
4	50	Nov 25 11:04 2013	Nov 25 10:52 2013	23 Nov 2013 10:13 pm
5	100	Nov 25 11:04 2013	Nov 25 10:52 2013	23 Nov 2013 10:25 pm
6	200	Nov 25 11:04 2013	Nov 25 10:52 2013	23 Nov 2013 10:38 pm
7	250	Nov 25 11:04 2013	Nov 25 10:52 2013	23 Nov 2013 10:50 pm

10-1248-112313C.M Mon Nov 25 11:04:37 2013

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory

Work Order: 1480633

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Instrument ID: ECD10

Calibration: 1400042

Lab File ID: J0223004.D

Calibration Date: 12/12/13 00:00

Sequence: S005575

Injection Date: 02/23/14

Lab Sample ID: S005575-CCV1

Injection Time: 08:17

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	104				4.2	15
Aroclor-1016 [2C]	A	100	95.7				-4.3	15
Aroclor-1260	A	100	99.0				-1.0	15
Aroclor-1260 [2C]	A	100	103				3.0	15
Decachlorobiphenyl	A	100	108	1.000632E+07	1.0834E+07		8.3	✓
Decachlorobiphenyl [2C]	A	100	106	9986282	1.0556E+07		5.7	
Tetrachloro-m-xylene	A	100	112	1.18075E+07	1.3258E+07		12.3	
Tetrachloro-m-xylene [2C]	A	100	98.5	1.360352E+07	1.3395E+07		-1.5	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	1480633
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD10	Calibration:	1400042
Lab File ID:	J0223005.D	Calibration Date:	12/12/13 00:00
Sequence:	S005575	Injection Date:	02/23/14
Lab Sample ID:	S005575-CCV2	Injection Time:	08:29

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254	A	100	95.8				-4.2	15
Aroclor-1254 [2C]	A	100	101				0.8	15
Decachlorobiphenyl	A	100	108	1.000632E+07	1.0842E+07		8.3	
Decachlorobiphenyl [2C]	A	100	104	9985282	1.0432E+07		4.5	✓
Tetrachloro-m-xylene	A	100	109	1.18075E+07	1.2924E+07		9.5	
Tetrachloro-m-xylene [2C]	A	100	96.9	1.360352E+07	1.3187E+07		-3.1	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0633
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD10	Calibration:	1400042
Lab File ID:	J0223006.D	Calibration Date:	12/12/13 00:00
Sequence:	S005575	Injection Date:	02/23/14
Lab Sample ID:	S005575-CCV3	Injection Time:	08:42

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1248	A	100	102				1.9	15
Aroclor-1248 [2C]	A	100	90.7				-9.3	15
Decachlorobiphenyl	A	100	115	1.000632E+07	1.1486E+07		14.8	
Decachlorobiphenyl [2C]	A	100	109	9985282	1.0896E+07		9.1	
Tetrachloro-m-xylene	A	100	122	1.18075E+07	1.4363E+07		21.6	
Tetrachloro-m-xylene [2C]	A	100	108	1.360352E+07	1.4753E+07		8.4	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory Work Order: 1480633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Instrument ID: ECD10 Calibration: 1400042
Lab File ID: J0223017.D Calibration Date: 12/12/13 00:00
Sequence: S005575 Injection Date: 02/24/14
Lab Sample ID: S005575-CCV4 Injection Time: 13:40

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	50.0	54.4				8.8	15
Aroclor-1016 [2C]	A	50.0	47.7				-4.5	15
Aroclor-1260	A	50.0	52.1				4.2	15
Aroclor-1260 [2C]	A	50.0	49.5				-1.0	15
Decachlorobiphenyl	A	50.0	53.9	1.000632E+07	1.0782E+07		7.8	
Decachlorobiphenyl [2C]	A	50.0	49.2	9985282	9826000		-1.6	
Tetrachloro-m-xylene	A	50.0	53.6	1.18075E+07	1.2648E+07		7.1	
Tetrachloro-m-xylene [2C]	A	50.0	48.1	1.360352E+07	1.3076E+07		-3.9	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Instrument ID: ECD10 Calibration: 1400042
Lab File ID: J0223023.D Calibration Date: 12/12/13 00:00
Sequence: S005575 Injection Date: 02/24/14
Lab Sample ID: S005575-CCV5 Injection Time: 16:32

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	107				6.9	15
Aroclor-1016 [2C]	A	100	93.7				-6.3	15
Aroclor-1260	A	100	104				4.3	15
Aroclor-1260 [2C]	A	100	101				1.0	15
Decachlorobiphenyl	A	100	116	1.000632E+07	1.1585E+07		15.8	
Decachlorobiphenyl [2C]	A	100	107	9985282	1.0667E+07		6.8	
Tetrachloro-m-xylene	A	100	110	1.18075E+07	1.2974E+07		9.9	
Tetrachloro-m-xylene [2C]	A	100	96.9	1.360352E+07	1.3178E+07		-3.1	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0633
Client:	WSP	Project:	6140 Site - Yorkville, NY-PCB
Instrument ID:	ECD10	Calibration:	1400042
Lab File ID:	J0223037.D	Calibration Date:	12/12/13 00:00
Sequence:	S005575	Injection Date:	02/24/14
Lab Sample ID:	S005575-CCV6	Injection Time:	20:33

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	50.0	56.1				12.2	15
Aroclor-1016 [2C]	A	50.0	49.8				-0.4	15
Aroclor-1260	A	50.0	52.8				5.6	15
Aroclor-1260 [2C]	A	50.0	52.9				5.8	15
Decachlorobiphenyl	A	50.0	59.2	1.000632E+07	1.184E+07		18.3	✓ 15
Decachlorobiphenyl [2C]	A	50.0	54.0	9985282	1.079E+07		8.1	
Tetrachloro-m-xylene	A	50.0	55.2	1.18075E+07	1.3038E+07		10.4	
Tetrachloro-m-xylene [2C]	A	50.0	49.3	1.360352E+07	1.342E+07		-1.4	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

49

Data Path : C:\msdchem\1\data\022314\
 Data File : J0223037.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 24 Feb 2014 8:33 pm
 Operator : JMB
 Sample : 1260/1016 50 Inst : ECD10
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Feb 25 08:15:34 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-020614.M
 Quant Title : 1260/1016 12/12/13 12/05/13
 QLast Update : Wed Jan 29 08:21:39 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.455	2.866	651.9E6	671.0E6	55.214	49.324
Spiked Amount	200.000		Recovery	=	27.61%	24.66%
2) S Decachlor...	6.529	7.191	592.0E6	539.5E6	59.161	54.037
Spiked Amount	200.000		Recovery	=	29.58%	27.02%
Target Compounds						
3) L1 1016{1}	2.973	3.754	23938808	10385840	57.235	50.126
4) L1 1016{2}	3.116	3.917	9610990	33412872	58.752	53.896
5) L1 1016{3}	3.301	4.102	28262075	12178965	55.426	45.621
6) L1 1016{4}	3.439	4.174	12254506	12760482	56.184	51.868
7) L1 1016{5}	3.688	4.387	14964997	16699347	52.786	47.493
Sum 1016			89031375	85437506	280.384	249.007
Average 1016					56.077	49.801
8) L7 1260{1}	4.895	5.402	30510194	33607087	54.314	49.654
9) L7 1260{2}	4.810	5.569	43092976	41344765	50.370	52.349
10) L7 1260{3}	5.116	5.933	26226461	31688569	51.027	54.391
11) L7 1260{4}	5.310	6.152	27840689	35126372	49.725	53.873
12) L7 1260{5}	5.559	6.319	72459027	72825573	56.501	54.222
Sum 1260			200.1E6	214.6E6	263.936	264.490
Average 1260					52.787	52.898

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0633
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD10	Calibration:	1400042
Lab File ID:	J0223049.D	Calibration Date:	12/12/13 00:00
Sequence:	S005575	Injection Date:	02/24/14
Lab Sample ID:	S005575-CCV7	Injection Time:	23:59

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	111				11.2	15
Aroclor-1016 [2C]	A	100	97.4				-2.6	15
Aroclor-1260	A	100	110				9.7	15
Aroclor-1260 [2C]	A	100	107				7.3	15
Decachlorobiphenyl	A	100	123	1.000632E+07	1.2344E+07		23.4	
Decachlorobiphenyl [2C]	A	100	114	9985282	1.1361E+07		13.8	
Tetrachloro-m-xylene	A	100	115	1.18075E+07	1.3585E+07		15.1	✓
Tetrachloro-m-xylene [2C]	A	100	102	1.360352E+07	1.3873E+07		2.0	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0633
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD10	Calibration:	1400042
Lab File ID:	J0223051.D	Calibration Date:	12/12/13 00:00
Sequence:	S005575	Injection Date:	02/25/14
Lab Sample ID:	S005575-CCV8	Injection Time:	08:40

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	102				2.2	15
Aroclor-1016 [2C]	A	100	95.0				-5.0	15
Aroclor-1260	A	100	96.3				-3.7	15
Aroclor-1260 [2C]	A	100	102				2.4	15
Decachlorobiphenyl	A	100	108	1.000632E+07	1.0815E+07		8.1	
Decachlorobiphenyl [2C]	A	100	109	9985282	1.0856E+07		8.7	
Tetrachloro-m-xylene	A	100	112	1.18075E+07	1.3191E+07		11.7	
Tetrachloro-m-xylene [2C]	A	100	99.8	1.360352E+07	1.3579E+07		-0.2	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0633
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Instrument ID: ECD10 Calibration: 1400042
Lab File ID: J0223054.D Calibration Date: 12/12/13 00:00
Sequence: S005575 Injection Date: 02/25/14
Lab Sample ID: S005575-CCV9 Injection Time: 09:17

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	50.0	51.8				3.5	15
Aroclor-1016 [2C]	A	50.0	48.6				-2.7	15
Aroclor-1260	A	50.0	48.2				-3.6	15
Aroclor-1260 [2C]	A	50.0	51.9				3.8	15
Decachlorobiphenyl	A	50.0	54.2	1.000632E+07	1.084E+07		8.3	
Decachlorobiphenyl [2C]	A	50.0	53.8	9985282	1.0736E+07		7.5	
Tetrachloro-m-xylene	A	50.0	54.1	1.18075E+07	1.2774E+07		8.2	
Tetrachloro-m-xylene [2C]	A	50.0	49.0	1.360352E+07	1.3346E+07		-1.9	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data Validation Report

**WSP Group
5140 Commercial Dr.
Yorkville, New York**

SDG# 14B0729



ECT.CON INC.

Environmental and Computer
Technology Consultants

115 Riverview Bend South Unit 2144
Palm Coast, FL 32137
Office (386) 283-9360
Cell (724) 288-1971
e-mail: ectconinc@mac.com

DATA VALIDATION REPORT

Project Name: 5140 Commercial Dr. Yorkville, NY
 SDG #: 14B0729

 Performed for: WSP

 Laboratory: Con-test Analytical Laboratory

 Validation Performed by: ECT.CON INC
 Validation Guidance: USEPA CLP National Functional Guidelines for Organic Data Review (NFG)

 Validation Report Date: 5/5/14

Samples/Matrix:

	Sample Date	Sample ID	Laboratory ID	Matrix
1	02/25/14	Berm-5N-22E	14B0729-01	Solid
2	02/25/14	Berm-5N-27E	14B0729-02	Solid
3	02/25/14	Berm-5N-32E	14B0729-03	Solid
4	02/25/14	Berm-5N-37E	14B0729-04	Solid
5	02/25/14	Berm-5N-52E	14B0729-05	Solid
6	02/25/14	Berm-5N-57E	14B0729-06	Solid
7	02/25/14	Berm-5N-112E	14B0729-07	Solid
8	02/25/14	Berm-5N-117E	14B0729-08	Solid
9	02/25/14	Berm-5N-162E	14B0729-09	Solid
10	02/25/14	Berm-5N-167E	14B0729-10	Solid
11	02/25/14	Berm-5N-182E	14B0729-11	Solid
12	02/25/14	Berm-5N-187E	14B0729-12	Solid
13	02/25/14	Exc-63N-25E	14B0729-13	Solid
14	02/25/14	Exc-68N-25E	14B0729-14	Solid
15	02/25/14	Exc-58N-25E	14B0729-15	Solid
16	02/25/14	Exc-63N-35E	14B0729-16	Solid
17	02/25/14	Exc-68N-35E	14B0729-17	Solid
18	02/25/14	Exc-58N-35E	14B0729-18	Solid
19	02/25/14	Exc-58N-45E	14B0729-19	Solid
20	02/25/14	Exc-63N-45E	14B0729-20	Solid
21	02/25/14	Exc-68N-45E	14B0729-21	Solid
22	02/25/14	Exc-63N-53E	14B0729-22	Solid

This sample set consists of the following:

Field Samples : 22
 Trip Blanks : 0
 Equipment Blanks : 0
 Field Blanks : 0
 Field Duplicates:

Analytical data in this report were reviewed to determine analytical limitations of the data based on specific quality control criteria. This review is performed on a laboratory signed data data package. The laboratory signature indicates that the laboratory has reviewed and has certified that the information provided in the data package are correct and complete.

The results of the review are an interpretation of the reported quality control information provided by the laboratory in comparison to the specified validation criteria for the project. Laboratory calculations have been verified as part of the validation. Form 1's and/or analytical results sheets are annotated with the results of the validation.

This evaluation was conducted in accordance with the requested validation guidelines, project requirement and the analytical method. Findings from this validation should be considered when using the analytical data.

The organic findings are based on the validation of the following:

- Sample Preservation
- Holding Times
- Initial Calibration
- Continuing Calibration
- Blanks (lab and field)
- System Monitoring Compounds
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- Laboratory Control Sample (LCS)
- Target Compound Identification
- Compound Quantification and Quantitation Limits
- System Performance

This report consists of the validation findings. This is followed by annotated Form 1's. The final section of the report is supporting documentation. This consists of the Chain of Custody, laboratory case narrative and the validation worksheets.

Project Number: 14B0729

Method Number **Description**
 SW-846 8082 Polychlorinated Biphenyls (PCBs)

					PCB 8082
	Sample Date	Sample ID	Laboratory ID	Matrix	
1	02/25/14	Berm-5N-22E	14B0729-01	Solid	X
2	02/25/14	Berm-5N-27E	14B0729-02	Solid	X
3	02/25/14	Berm-5N-32E	14B0729-03	Solid	X
4	02/25/14	Berm-5N-37E	14B0729-04	Solid	X
5	02/25/14	Berm-5N-52E	14B0729-05	Solid	X
6	02/25/14	Berm-5N-57E	14B0729-06	Solid	X
7	02/25/14	Berm-5N-112E	14B0729-07	Solid	X
8	02/25/14	Berm-5N-117E	14B0729-08	Solid	X
9	02/25/14	Berm-5N-162E	14B0729-09	Solid	X
10	02/25/14	Berm-5N-167E	14B0729-10	Solid	X
11	02/25/14	Berm-5N-182E	14B0729-11	Solid	X
12	02/25/14	Berm-5N-187E	14B0729-12	Solid	X
13	02/25/14	Exc-63N-25E	14B0729-13	Solid	X
14	02/25/14	Exc-68N-25E	14B0729-14	Solid	X
15	02/25/14	Exc-58N-25E	14B0729-15	Solid	X
16	02/25/14	Exc-63N-35E	14B0729-16	Solid	X
17	02/25/14	Exc-68N-35E	14B0729-17	Solid	X
18	02/25/14	Exc-58N-35E	14B0729-18	Solid	X
19	02/25/14	Exc-58N-45E	14B0729-19	Solid	X
20	02/25/14	Exc-63N-45E	14B0729-20	Solid	X
21	02/25/14	Exc-68N-45E	14B0729-21	Solid	X
22	02/25/14	Exc-63N-53E	14B0729-22	Solid	X

FINDINGS

POLYCHLORINATED BIPHENYLS

1. Positive results less than the reporting limits were qualified as estimated, "J", due to uncertainty near the detection limit.

NOTES

POLYCHLORINATED BIPHENYLS

- A. Surrogate recoveries were not reported for samples Exc-63N-25E and Exc-63N-35E due to the necessary dilution of the sample extracts prior to analysis. Data were not qualified on this basis.
- D. On instrument ECD 5's analytical sequence, standards for Aroclor 1242, 1254, 1232, 1221, 1262, and 1268 are listed as part of the sequence. The quantitation reports for these compounds were not included in the data package. This is noted for completeness only. Data were not qualified on this basis.
- E. On instrument ECD 3's analytical sequence, standards for Aroclor 1242, 1232, 1221, 1262, and 1268 are listed as part of the sequence. The quantitation reports for these compounds were not included in the data package. This is noted for completeness only. Data were not qualified on this basis.
- F. The following samples were analyzed and reported at the listed dilution factors due to the presence of target compounds and/or matrix interferences. Data were not qualified on this basis.

Sample	Lab ID	Dilution
Berm-5N-57E	14B0729-06	2X
Berm-5N-112E	14B0729-07	5X
Berm-5N-117E	14B0729-08	5X
Berm-5N-162E	14B0729-09	10X
Berm-5N-167E	14B0729-10	5X
Exc-63N-25E	14B0729-13	50X
Exc-63N-35E	14B0729-16	200X
Exc-63N-45E	14B0729-20	20X
Exc-68N-45E	14B0729-21	2X
Exc-63N-53E	14B0729-22	10X

- G. The analytical sequence for ECD 3 was not included in the SDG. This is noted for completeness only. Data are not qualified on this basis.
- H. Continuing calibration %Ds exceeded the 15% quality control limit for Aroclor 1016 and 1260 on instrument ECD 3. The NFG allow for percent difference of up to 50% for closing CCVs. Therefore, data are not qualified on this basis.
- H. Continuing calibration %Ds exceeded the 15% quality control limit for Aroclor 1016 and 1260 on one analytical column on instrument ECD 5. The NFG allow for percent difference of up to 50% for closing CCVs. Therefore, data are not qualified on this basis.

 Data Reviewer

 Date

Glossary of Data Qualifiers

U	Not Detected	The associated number indicates approximate sample concentration necessary to be detected.
UJ	Not Detected	Quantitation limit may be inaccurate or imprecise.
J	Analyte Present	Reported value is an estimated quantity.
N	Consider Present	Tentative identification. Special methods may be needed to confirm its presence or absence in future sampling efforts.
R	Unusable Result	Analyte may or may not be present in the sample.
UR	Unusable Result	Analyte may or may not be present in the sample.



ECT.CON INC.

Environmental and Computer
Technology Consultants

Annotated Form 1's *(Spreadsheet)*



39 Spruce Street * East Longmeadow MA 01028 * FAX 413/525-6406 * TEL. 413/525-2332

**1 - FORM I
ANALYSIS DATA SHEET****Berm-5N-22E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-01 File ID: E0225081.D
Sampled: 02/25/14 08:15 Prepared: 02/26/14 10:51 Analyzed: 02/26/14 18:50
Solids: 84.50 Preparation: SW-846 3546 Dilution: 1
Batch: B090939 Sequence: S005584 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0073	0.024	
11104-28-2	Aroclor-1221		0.023	0.024	
11141-16-5	Aroclor-1232		0.015	0.024	
53469-21-9	Aroclor-1242		0.012	0.024	
12672-29-6	Aroclor-1248		0.014	0.024	
11097-69-1	Aroclor-1254		0.010	0.024	
11096-82-5	Aroclor-1260		0.011	0.024	
37324-23-5	Aroclor-1262		0.0097	0.024	
11100-14-4	Aroclor-1268		0.014	0.024	

* Values outside of QC limits

4/26/14
5/1/14

**1 - FORM I
ANALYSIS DATA SHEET****Berm-5N-27E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-02 File ID: E0225082.D
Sampled: 02/25/14 08:20 Prepared: 02/26/14 10:51 Analyzed: 02/26/14 19:02
Solids: 81.00 Preparation: SW-846 3546 Dilution: 1
Batch: B090939 Sequence: S005584 Calibration: 14D0045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0077	0.025	
11104-28-2	Aroclor-1221		0.024	0.025	
11141-16-5	Aroclor-1232		0.015	0.025	
53469-21-9	Aroclor-1242		0.013	0.025	
12672-29-6	Aroclor-1248		0.014	0.025	
11097-69-1	Aroclor-1254		0.011	0.025	
11096-82-5	Aroclor-1260 [2C]	0.021 <i>5</i>	0.012	0.025	<i>1</i>
37324-23-5	Aroclor-1262		0.010	0.025	
11100-14-4	Aroclor-1268		0.015	0.025	

* Values outside of QC limits

*641
5/1/14*



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1 - FORM I ANALYSIS DATA SHEET

Berm-5N-32E

Laboratory: Con-Test Analytical Laboratory SDG: 1480729
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 1480729-03 File ID: E0225083.D
 Sampled: 02/25/14 08:25 Prepared: 02/26/14 10:51 Analyzed: 02/26/14 19:15
 Solids: 81.90 Preparation: SW-846 3546 Dilution: 1
 Batch: B090939 Sequence: S005584 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0076	0.024	
11104-28-2	Aroclor-1221		0.024	0.024	
11141-16-5	Aroclor-1232		0.015	0.024	
53469-21-9	Aroclor-1242		0.012	0.024	
12672-29-6	Aroclor-1248		0.014	0.024	
11097-69-1	Aroclor-1254		0.011	0.024	
11095-82-5	Aroclor-1260 [2C]	0.037	0.012	0.024	
37324-23-5	Aroclor-1262		0.010	0.024	
11100-14-4	Aroclor-1268		0.015	0.024	

* Values outside of QC limits

004
3/4/14

1 - FORM I

ANALYSIS DATA SHEET

Berm-5N-37E

Laboratory: Con-Test Analytical Laboratory SDG: 1480729
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 1480729-04 File ID: E0225084.D
 Sampled: 02/25/14 08:30 Prepared: 02/26/14 10:51 Analyzed: 02/26/14 19:28
 Solids: 82.70 Preparation: SW-846 3546 Dilution: 1
 Batch: B090939 Sequence: S005584 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0075	0.024	
11104-28-2	Aroclor-1221		0.024	0.024	
11141-16-5	Aroclor-1232		0.015	0.024	
53469-21-9	Aroclor-1242		0.012	0.024	
12672-29-6	Aroclor-1248		0.014	0.024	
11097-69-1	Aroclor-1254		0.010	0.024	
11096-82-5	Aroclor-1260		0.012	0.024	
37324-23-5	Aroclor-1262		0.0099	0.024	
11100-14-4	Aroclor-1268		0.015	0.024	

* Values outside of QC limits

5/14/14



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77

13

1 - FORM I ANALYSIS DATA SHEET

Berm-5N-52E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-05 File ID: E0225085.D
Sampled: 02/25/14 08:35 Prepared: 02/26/14 10:51 Analyzed: 02/26/14 19:41
Solids: 88.10 Preparation: SW-846 3546 Dilution: 1
Batch: B090939 Sequence: S005584 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0070	0.022	
11104-28-2	Aroclor-1221		0.022	0.022	
11141-16-5	Aroclor-1232		0.014	0.022	
53469-21-9	Aroclor-1242		0.011	0.022	
12672-29-6	Aroclor-1248		0.013	0.022	
11097-69-1	Aroclor-1254		0.0097	0.022	
11096-82-5	Aroclor-1260		0.011	0.022	
37324-23-5	Aroclor-1262		0.0092	0.022	
11100-14-4	Aroclor-1268		0.013	0.022	

* Values outside of QC limits

1491
5/4/14

1 - FORM I

ANALYSIS DATA SHEET

Berm-5N-57E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14B0729-06 File ID: E0227011.D
 Sampled: 02/25/14 08:40 Prepared: 02/26/14 10:51 Analyzed: 02/27/14 10:33
 Solids: 76.70 Preparation: SW-846 3546 Dilution: 2
 Batch: B090939 Sequence: S005585 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.016	0.052	
11104-28-2	Aroclor-1221		0.051	0.052	
11141-16-5	Aroclor-1232		0.032	0.052	
53469-21-9	Aroclor-1242		0.027	0.052	
12672-29-6	Aroclor-1248		0.030	0.052	
11097-69-1	Aroclor-1254		0.022	0.052	
11096-82-5	Aroclor-1260 [2C]	0.41	0.025	0.052	
37324-23-5	Aroclor-1262		0.021	0.052	
11100-14-4	Aroclor-1268		0.031	0.052	

* Values outside of QC limits

446
5/14/14



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83

15

1 - FORM I ANALYSIS DATA SHEET

Berm-5N-112E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-07 File ID: E0227012.D
Sampled: 02/25/14 08:45 Prepared: 02/26/14 10:51 Analyzed: 02/27/14 10:46
Solids: 85.10 Preparation: SW-846 3546 Dilution: 5
Batch: B090939 Sequence: S005585 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.036	0.12	
11104-28-2	Aroclor-1221		0.12	0.12	
11141-16-5	Aroclor-1232		0.073	0.12	
53469-21-9	Aroclor-1242		0.060	0.12	
12672-29-6	Aroclor-1248		0.068	0.12	
11097-69-1	Aroclor-1254		0.051	0.12	
11096-82-5	Aroclor-1260 [2C]	1.1	0.056	0.12	
37324-23-5	Aroclor-1262		0.048	0.12	
11100-14-4	Aroclor-1268		0.071	0.12	

* Values outside of QC limits

USE
5/14/14



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86

16

1 - FORM I ANALYSIS DATA SHEET

Berm-5N-117E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-08 File ID: E0227013.D
Sampled: 02/25/14 08:50 Prepared: 02/26/14 10:51 Analyzed: 02/27/14 10:59
Solids: 84.70 Preparation: SW-846 3546 Dilution: 5
Batch: B090939 Sequence: S005585 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.036	0.12	
11104-28-2	Aroclor-1221		0.11	0.12	
11141-16-5	Aroclor-1232		0.072	0.12	
53469-21-9	Aroclor-1242		0.060	0.12	
12672-29-6	Aroclor-1248		0.068	0.12	
11097-69-1	Aroclor-1254		0.050	0.12	
11096-82-5	Aroclor-1260 [2C]	0.67	0.056	0.12	
37324-23-6	Aroclor-1262		0.048	0.12	
11100-14-4	Aroclor-1268		0.070	0.12	

▪ Values outside of QC limits

WSP
5/14/14



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89

17

1 - FORM I ANALYSIS DATA SHEET

Berm-5N-162E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-09 File ID: E0227014.D
Sampled: 02/25/14 08:55 Prepared: 02/26/14 10:51 Analyzed: 02/27/14 11:12
Solids: 83.30 Preparation: SW-846 3546 Dilution: 10
Batch: B090939 Sequence: S005585 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.074	0.24	
11104-28-2	Aroclor-1221		0.24	0.24	
11141-16-5	Aroclor-1232		0.15	0.24	
53469-21-9	Aroclor-1242		0.12	0.24	
12672-29-6	Aroclor-1248	0.15 [✓]	0.14	0.24	✓
11097-69-1	Aroclor-1254		0.10	0.24	
11096-82-5	Aroclor-1260 (2C)	1.9	0.12	0.24	
37324-23-5	Aroclor-1262		0.098	0.24	
11100-14-4	Aroclor-1268		0.14	0.24	

* Values outside of QC limits

446-514/14

1 - FORM I ANALYSIS DATA SHEET

Berm-5N-167E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14B0729-10 File ID: E0227015.D
 Sampled: 02/25/14 09:00 Prepared: 02/26/14 10:51 Analyzed: 02/27/14 11:25
 Solids: 83.60 Preparation: SW-846 3546 Dilution: 5
 Batch: B090939 Sequence: S005585 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.037	0.12	
11104-28-2	Aroclor-1221		0.12	0.12	
11141-15-5	Aroclor-1232		0.074	0.12	
53469-21-9	Aroclor-1242		0.061	0.12	
12572-29-6	Aroclor-1248		0.069	0.12	
11097-69-1	Aroclor-1254		0.051	0.12	
11096-82-5	Aroclor-1260 [2C]	0.64	0.057	0.12	
37324-23-5	Aroclor-1262		0.049	0.12	
11100-14-4	Aroclor-1268		0.072	0.12	

* Values outside of QC limits

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5/14/14

1 - FORM I

ANALYSIS DATA SHEET

Berm-5N-182E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14B0729-11 File ID: E0225091.D
 Sampled: 02/25/14 11:15 Prepared: 02/26/14 10:51 Analyzed: 02/26/14 20:58
 Solids: 83.30 Preparation: SW-846 3546 Dilution: 1
 Batch: B090939 Sequence: S005584 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0074	0.024	
11104-28-2	Aroclor-1221		0.024	0.024	
11141-16-5	Aroclor-1232		0.015	0.024	
53469-21-9	Aroclor-1242		0.012	0.024	
12672-29-6	Aroclor-1248		0.014	0.024	
11097-69-1	Aroclor-1254		0.010	0.024	
11096-82-5	Aroclor-1260 [2C]	0.15	0.012	0.024	
37324-23-5	Aroclor-1262		0.0098	0.024	
11100-14-4	Aroclor-1268		0.014	0.024	

* Values outside of QC limits

14/3/14



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**1 - FORM I
ANALYSIS DATA SHEET****Berm-5N-187E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-12 File ID: E0225094.D
Sampled: 02/25/14 11:20 Prepared: 02/26/14 10:51 Analyzed: 02/26/14 21:36
Solids: 82.50 Preparation: SW-846 3546 Dilution: 1
Batch: B090939 Sequence: S005584 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0075	0.024	
11104-28-2	Aroclor-1221		0.024	0.024	
11141-16-5	Aroclor-1232		0.015	0.024	
53469-21-9	Aroclor-1242		0.012	0.024	
12672-29-6	Aroclor-1248		0.014	0.024	
11097-69-1	Aroclor-1254		0.010	0.024	
11096-82-5	Aroclor-1260 [2C]	0.092	0.012	0.024	
37324-23-5	Aroclor-1262		0.0099	0.024	
11100-14-4	Aroclor-1268		0.015	0.024	

* Values outside of QC limits

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5/16/14

1 - FORM I

ANALYSIS DATA SHEET

Exc-63N-25E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-13 File ID: E0227016.D
Sampled: 02/25/14 12:20 Prepared: 02/26/14 10:51 Analyzed: 02/27/14 11:38
Solids: 90.70 Preparation: SW-846 3546 Dilution: 50
Batch: B090939 Sequence: S005585 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.34	1.1	
11104-28-2	Aroclor-1221		1.1	1.1	
11141-16-5	Aroclor-1232		0.68	1.1	
53469-21-9	Aroclor-1242		0.56	1.1	
12672-29-6	Aroclor-1248		0.64	1.1	
11097-69-1	Aroclor-1254		0.47	1.1	
11096-82-5	Aroclor-1260 [2C]	7.1	0.53	1.1	
37324-23-5	Aroclor-1262		0.45	1.1	
11100-14-4	Aroclor-1268		0.66	1.1	

* Values outside of QC limits

2/27/14

1 - FORM I

ANALYSIS DATA SHEET

Exc-68N-25E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14B0729-14 File ID: C0227012.d
 Sampled: 02/25/14 12:25 Prepared: 02/26/14 10:51 Analyzed: 02/27/14 10:39
 Solids: 90.40 Preparation: SW-846 3546 Dilution: 1
 Batch: B090939 Sequence: S005583 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12574-11-2	Aroclor-1016		0.0069	0.022	
11104-28-2	Aroclor-1221		0.022	0.022	
11141-16-5	Aroclor-1232		0.014	0.022	
53459-21-9	Aroclor-1242		0.011	0.022	
12672-29-6	Aroclor-1248		0.013	0.022	
11097-69-1	Aroclor-1254		0.0095	0.022	
11096-82-5	Aroclor-1260 [2C]	0.045 J	0.011	0.022	
37324-23-5	Aroclor-1262		0.0091	0.022	
11100-14-4	Aroclor-1268		0.013	0.022	

* Values outside of QC limits



1 - FORM I

ANALYSIS DATA SHEET

Exc-58N-25E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-15 File ID: E0225097.D
Sampled: 02/25/14 12:30 Prepared: 02/26/14 10:51 Analyzed: 02/26/14 22:15
Solids: 81.10 Preparation: SW-846 3546 Dilution: 1
Batch: B090939 Sequence: S005584 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0076	0.025	
11104-28-2	Aroclor-1221		0.024	0.025	
11141-16-5	Aroclor-1232		0.015	0.025	
53469-21-9	Aroclor-1242		0.013	0.025	
12672-29-6	Aroclor-1248		0.014	0.025	
11097-69-1	Aroclor-1254		0.011	0.025	
11096-82-5	Aroclor-1260 [2C]	0.19	0.012	0.025	
37324-23-5	Aroclor-1262		0.010	0.025	
11100-14-4	Aroclor-1268		0.015	0.025	

* Values outside of QC limits

14/2/14
5140/4



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**1 - FORM I
ANALYSIS DATA SHEET****Exc-63N-35E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-16 File ID: C0227013.d
Sampled: 02/25/14 13:35 Prepared: 02/26/14 10:51 Analyzed: 02/27/14 10:51
Solids: 83.30 Preparation: SW-846 3546 Dilution: 200
Batch: B090939 Sequence: S005583 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		1.5	4.8	
11104-28-2	Aroclor-1221		4.7	4.8	
11141-16-5	Aroclor-1232		2.9	4.8	
53469-21-9	Aroclor-1242		2.4	4.8	
12672-29-6	Aroclor-1248 [2C]	6.5	2.8	4.8	
11097-69-1	Aroclor-1254		2.0	4.8	
11096-82-5	Aroclor-1260 [2C]	26 J	2.3	4.8	
37324-23-5	Aroclor-1262		1.9	4.8	
11100-14-4	Aroclor-1268		2.9	4.8	

* Values outside of QC limits

5/14/14



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121

25

1 - FORM I ANALYSIS DATA SHEET

Exc-68N-35E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-17 File ID: C0227014.d
Sampled: 02/25/14 13:40 Prepared: 02/26/14 10:51 Analyzed: 02/27/14 11:05
Solids: 84.60 Preparation: SW-846 3546 Dilution: 1
Batch: B090939 Sequence: S005583 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0073	0.024	
11104-28-2	Aroclor-1221		0.023	0.024	
11141-16-5	Aroclor-1232		0.015	0.024	
53469-21-9	Aroclor-1242		0.012	0.024	
12672-29-6	Aroclor-1248		0.014	0.024	
11097-69-1	Aroclor-1254		0.010	0.024	
11096-82-5	Aroclor-1260 [2C]	0.039 5	0.011	0.024	
37324-23-5	Aroclor-1262		0.0097	0.024	
11100-14-4	Aroclor-1268		0.014	0.024	

* Values outside of QC limits

4/15/14
5/1/14



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124

26

1 - FORM I ANALYSIS DATA SHEET

Exc-58N-35E

Laboratory: Con-Test Analytical Laboratory SOG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-18 File ID: E0225100.D
Sampled: 02/25/14 13:45 Prepared: 02/26/14 10:51 Analyzed: 02/26/14 22:53
Solids: 86.80 Preparation: SW-846 3546 Dilution: 1
Batch: B090939 Sequence: S005584 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0071	0.023	
11104-28-2	Aroclor-1221		0.023	0.023	
11141-16-5	Aroclor-1232		0.014	0.023	
53469-21-9	Aroclor-1242		0.012	0.023	
12672-29-6	Aroclor-1248		0.013	0.023	
11097-69-1	Aroclor-1254		0.0099	0.023	
11096-82-5	Aroclor-1260 [2C]	0.034	0.011	0.023	
37324-23-5	Aroclor-1262		0.0094	0.023	
11100-14-4	Aroclor-1268		0.014	0.023	

* Values outside of QC limits

WSP
5/26/14



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**1 - FORM I
ANALYSIS DATA SHEET****Exc-58N-45E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-19 File ID: E0225101.D
Sampled: 02/25/14 14:10 Prepared: 02/26/14 10:51 Analyzed: 02/26/14 23:06
Solids: 85.90 Preparation: SW-846 3546 Dilution: 1
Batch: B090939 Sequence: S005584 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0072	0.023	
11104-28-2	Aroclor-1221		0.023	0.023	
11141-16-5	Aroclor-1232		0.014	0.023	
53469-21-9	Aroclor-1242		0.012	0.023	
12672-29-6	Aroclor-1248	0.093	0.014	0.023	
11097-69-1	Aroclor-1254		0.010	0.023	
11096-82-5	Aroclor-1260 [2C]	0.25	0.011	0.023	
37324-23-5	Aroclor-1262		0.0095	0.023	
11100-14-4	Aroclor-1268		0.014	0.023	

* Values outside of QC limits

COPY
5/14/14



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**1 - FORM I
ANALYSIS DATA SHEET**

Exc-63N-45E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-20 File ID: C0227015.d
Sampled: 02/25/14 14:20 Prepared: 02/26/14 10:51 Analyzed: 02/27/14 11:17
Solids: 83.30 Preparation: SW-846 3546 Dilution: 20
Batch: B090939 Sequence: S005583 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.15	0.48	
11104-28-2	Aroclor-1221		0.47	0.48	
11141-16-5	Aroclor-1232		0.30	0.48	
53469-21-9	Aroclor-1242		0.24	0.48	
12672-29-6	Aroclor-1248	0.31 J	0.28	0.48	J
11097-69-1	Aroclor-1254		0.21	0.48	
11096-82-5	Aroclor-1260 [2C]	4.1 J	0.23	0.48	
37324-23-5	Aroclor-1262		0.20	0.48	
11100-14-4	Aroclor-1268		0.29	0.48	

* Values outside of QC limits

WSP
5/14/14

1 - FORM I

ANALYSIS DATA SHEET

Exc-68N-45E

Laboratory: Con-Test Analytical Laboratory SDG: 1480729
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 1480729-21 File ID: C0227016.d
 Sampled: 02/25/14 14:30 Prepared: 02/26/14 10:52 Analyzed: 02/27/14 11:30
 Solids: 90.70 Preparation: SW-846 3546 Dilution: 2
 Batch: B090940 Sequence: S005583 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.014	0.044	
11104-28-2	Aroclor-1221		0.043	0.044	
11141-16-5	Aroclor-1232		0.027	0.044	
53469-21-9	Aroclor-1242		0.022	0.044	
12672-29-6	Aroclor-1248	0.35	0.026	0.044	
11097-69-1	Aroclor-1254		0.019	0.044	
11096-82-5	Aroclor-1260	0.33	0.021	0.044	
37324-23-5	Aroclor-1262		0.018	0.044	
11100-14-4	Aroclor-1268		0.026	0.044	

* Values outside of QC limits

LW
STW



39 Spruce Street * East Longmeadow, MA 01026 * FAX 413/525-6405 * TEL. 413/525-2332

156

30

1 - FORM I ANALYSIS DATA SHEET

Exc-63N-53E

Laboratory: Con-Test Analytical Laboratory SOG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-22 File ID: C0227017.d
Sampled: 02/25/14 14:40 Prepared: 02/25/14 10:52 Analyzed: 02/27/14 11:43
Solids: 88.90 Preparation: SW-846 3546 Dilution: 10
Batch: B090940 Sequence: S005583 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.070	0.22	
11104-28-2	Aroclor-1221		0.22	0.22	
11141-16-5	Aroclor-1232		0.14	0.22	
53469-21-9	Aroclor-1242		0.11	0.22	
12672-29-6	Aroclor-1248 [2C]	0.45	0.13	0.22	
11097-69-1	Aroclor-1254		0.097	0.22	
11096-82-5	Aroclor-1260	2.4	0.11	0.22	
37324-23-5	Aroclor-1262		0.092	0.22	
11100-14-4	Aroclor-1268		0.13	0.22	

* Values outside of QC limits

11/14/14
5/14/14



438

31

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

1 - FORM I
ANALYSIS DATA SHEET
Berm-5N-22E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-01
Sampled: 02/25/14 08:15
% Solids: 84.50

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOIDS	% Solids	84.5			1		B090943	02/27/14 07:47	SM 2540G

6/11/14
5/14/14



439

32

39 Spruce Street * East Longmeadow, MA 01026 * FAX 413/525-8405 * TEL. 413/525-2332

1 - FORM I
ANALYSIS DATA SHEET
Bern-5N-27E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-02
Sampled: 02/25/14 08:20
% Solids: 81.00

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	81.0			1		B090943	02/27/14 07:47	SM 2540G

CUC
5/26/14



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

1 - FORM I
ANALYSIS DATA SHEET
Berm-5N-32E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-03
Sampled: 02/25/14 08:25
% Solids: 81.90

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	81.9			1		B090943	02/27/14 07:47	SM 2540G

LUC
5/14/14

34

441



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1 - FORM I
ANALYSIS DATA SHEET
Berm-5N-37E

Laboratory:	Con-Test Analytical Laboratory	SDG:	14B0729
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Laboratory ID:	14B0729-04
Sampled:	02/25/14 08:30		
% Solids:	82.70		

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	82.7			1		B090943	02/27/14 07:47	SM 2540G

WSP
5/14/14



442

35

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1 - FORM I
ANALYSIS DATA SHEET
Berm-5N-52E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0729

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0729-05

Sampled: 02/25/14 08:35

% Solids: 88.10

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	88.1			1		B090943	02/27/14 07:47	SM 2540G

14B0729-05



443

36

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

1 - FORM I
ANALYSIS DATA SHEET
Berm-5N-57E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-06
Sampled: 02/25/14 08:40
% Solids 76.70

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	76.7			1		B090943	02/27/14 07:47	SM 2540G

14B0729
5/14/14



444

37

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1 - FORM I
ANALYSIS DATA SHEET
Berm-5N-112E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0729

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0729-07

Sampled: 02/25/14 08:45

% Solids: 85.10

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	85.1			1		B090943	02/27/14 07:47	SM 2540G

LW
5/14/14



445

38

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

1 - FORM I
ANALYSIS DATA SHEET
Berm-5N-117E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-08
Sampled: 02/25/14 08:50
% Solids: 84.70

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	84.7			1		B090943	02/27/14 07 47	SM 2540G

445
5/14/14



446

39

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

1 - FORM I
ANALYSIS DATA SHEET
Berm-5N-162E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0729

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0729-09

Sampled: 02/25/14 08:55

% Solids: 83.30

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	83.3			1		B090943	02/27/14 07:47	SM 2540G

02/27/14
5/14/14

40
447

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-8405 * TEL. 413/525-2332

1 - FORM I
ANALYSIS DATA SHEET
Berm-5N-167E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0729

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0729-10

Sampled: 02/25/14 09:00

% Solids: 83.60

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	83.6			1		B090943	02/27/14 07:47	SM 2540G

LUC
57404



448

39 Spruce Street * East Longmeadow, MA 01026 * FAX 413/525-6405 * TEL , 413/525-2332

1 - FORM I
ANALYSIS DATA SHEET
Berm-5N-182E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-11
Sampled: 02/25/14 11:15
% Solids: 83.30

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	83.3			1		B090943	02/27/14 07:47	SM 2540G

WSP
5/21/14



449

42

39 Spruce Street * East Longmeadow, MA 01026 * FAX 413/525-6405 * TEL. 413/525-2332

1 - FORM I
ANALYSIS DATA SHEET
Berm-5N-187E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0729

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0729-12

Sampled: 02/25/14 11:20

% Solids: 82.50

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	82.5			1		B090943	02/27/14 07:47	SM 2540G

C. J. King
5/14/15



450

2/3

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

1 - FORM I
ANALYSIS DATA SHEET
Exc-63N-25E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0729

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0729-13

Sampled: 02/25/14 12:20

% Solids: 90.70

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	90.7			1		B090943	02/27/14 07:47	SM 2540G

OK
5/14/14

44
451

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

1 - FORM I
ANALYSIS DATA SHEET
Exc-68N-25E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-14
Sampled: 02/25/14 12:25
% Solids: 90.40

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	90.4			1		B090943	02/27/14 07.47	SM 2540G

44
5/24/14



452

45

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

1 - FORM I
ANALYSIS DATA SHEET
Exc-58N-25E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0729

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0729-15

Sampled: 02/25/14 12:30

% Solids: 81.10

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	81.1			1		B080943	02/27/14 07:47	SM 2540G

6/6/14
5/26/14

46
453

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

1 - FORM I
ANALYSIS DATA SHEET
Exc-63N-35E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-16
Sampled: 02/25/14 13:35
% Solids: 83.30

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	83.3			1		B090943	02/27/14 07:47	SM 2540G

46
514/14



454

47

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

1 - FORM I
ANALYSIS DATA SHEET
Exc-68N-35E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0729

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0729-17

Sampled 02/25/14 13:40

% Solids: 84.60

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	84.6			1		B090943	02/27/14 07:47	SM 2540G

446
5/26/14



455

48

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-8405 * TEL. 413/525-2332

1 - FORM I
ANALYSIS DATA SHEET
Exc-58N-35E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-18
Sampled: 02/25/14 13:45
% Solids: 86.80

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	86.8			1		B090943	02/27/14 07:47	SM 2540G

48
5/1/14



456

49

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

1 - FORM I
ANALYSIS DATA SHEET
Exc-58N-45E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-19
Sampled: 02/25/14 14:10
% Solids: 85.90

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	85.9			1		B090943	02/27/14 07:47	SM 2540G

456
5/14/14



457

50

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL . 413/525-2337

1 - FORM I
ANALYSIS DATA SHEET
Exc-63N-45E

Laboratory: Con-Test Analytical Laboratory

SDO: 14B0729

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0729-20

Sampled: 02/25/14 14:20

% Solids: 83.30

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	83.3			1		B090943	02/27/14 07:47	SM 2540G

Lut
5/14/14



458

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

1 - FORM I
ANALYSIS DATA SHEET
Exc-68N-45E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0729

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0729-21

Sampled: 02/25/14 14:30

% Solids: 90.70

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	90.7			1		R090943	02/27/14 07:47	SM 2540A

LW
5/14/14



459

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

1 - FORM I
ANALYSIS DATA SHEET
Exc-63N-53E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0729-22
Sampled: 02/25/14 14:40
% Solids: 88.90

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	88.9			1		B090943	02/27/14 07:47	SM 2540G

44-57414



ECT.CON INC.

Environmental and Computer
Technology Consultants

Support Documentation

Laboratory Case Narrative

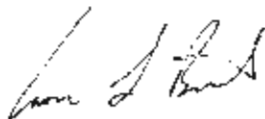
February 28, 2014

Dave Bonchard
WSI
5 Sullivan Street
Cazenovia, NY 13035

Project Location: 5140 Site - Yorkville, NY
Client Job Number:
Project Number: E0032927.000/05
Laboratory Work Order Number: 14B0729

Enclosed are results of analyses for samples received by the laboratory on February 26, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Aaron L. Benoit
Project Manager

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

WSP
3 Sullivan Street
Chenango, NY 13035
ATTN: Dave Bouchard

REPORT DATE 2/28/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER E0031927 00005

ANALYTICAL SUMMARY

WORK ORDER NUMBER 14B0729

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

PROJECT LOCATION 5140 Site - Yorkville, NY

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Berm-SN-22E	14B0729-01	Soil		SM 2540G SW-846 8082A	
Berm-SN-27E	14B0729-02	Soil		SM 2540G SW-846 8082A	
Berm-SN-32E	14B0729-03	Soil		SM 2540G SW-846 8082A	
Berm-SN-37E	14B0729-04	Soil		SM 2540G SW-846 8082A	
Berm-SN-52E	14B0729-05	Soil		SM 2540G SW-846 8082A	
Berm-SN-57E	14B0729-06	Soil		SM 2540G SW-846 8082A	
Berm-SN-112E	14B0729-07	Soil		SM 2540G SW-846 8082A	
Berm-SN-117E	14B0729-08	Soil		SM 2540G SW-846 8082A	
Berm-SN-162E	14B0729-09	Soil		SM 2540G SW-846 8082A	
Berm-SN-167E	14B0729-10	Soil		SM 2540G SW-846 8082A	
Berm-SN-182E	14B0729-11	Soil		SM 2540G SW-846 8082A	
Berm-SN-187E	14B0729-12	Soil		SM 2540G SW-846 8082A	
Exc-63N-25F	14B0729-13	Soil		SM 2540G SW-846 8082A	
Exc-68N-35F	14B0729-14	Soil		SM 2540G SW-846 8082A	
Exc-58N-25F	14B0729-15	Soil		SM 2540G SW-846 8082A	
Exc-63N-35E	14B0729-16	Soil		SM 2540G SW-846 8082A	
Exc-68N-35E	14B0729-17	Soil		SM 2540G SW-846 8082A	
Exc-58N-35E	14B0729-18	Soil		SM 2540G SW-846 8082A	
Exc-58N-45F	14B0729-19	Soil		SM 2540G SW-846 8082A	
Exc-63N-45E	14B0729-20	Soil		SM 2540G SW-846 8082A	

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

WSP
5 Sullivan Street
Cazenovia, NY 13035
ATTN: Dave Bouchard

REPORT DATE 3/28/2014

PURCHASE ORDER NUMBER

PROJECT NUMBER E0032427.000005

ANALYTICAL SUMMARY

WORK ORDER NUMBER 14B0729

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

PROJECT LOCATION 5140 Site - Yorkville, NY

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Exo-08N-43E	14B0729-21	Soil		SM 2540G SW-846 8082A	
Exo-03N-53E	14B0729-22	Soil		SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

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

REVISED REPORT 02/18/2014: Report revised for incorrect sample IDs listed in the report. Sample IDs for 14B0729-13 through 14B0729-22 were corrected as per COC.

SW-046 8007A

Qualifications:

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

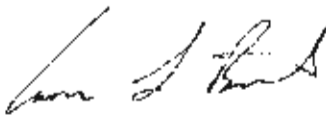
Analyte & Sample(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [ZC], Tetrachloro-m-xylene, Tetrachloro-m-xylene [ZC]

14B0729-13[Exc-63N-25E], 14B0729-16[Exc-63N-35E]

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

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



Aaron T. Benson
Project Chemist

Chain of Custody

CHAIN OF CUSTODY RECORD 14B0729

Project Number: 50078927/005 5140 Commercial Drive, Yonkers		Site and Location:		Matrix:		Number of Containers		Remarks	
Contact Name: Dave Doucette		Contact Email: Dave.Doucette@wsp.com		S = Soil Aq = Water A = Air Bu = Bulk W = Waste Bt = Bldg OW = Oil Waste O = Other					
Sample Name: Kevin D. Sullivan		Signature: [Signature]							
Sample Identification	Depth	Date	Time	Matrix					
Beam SN-226	1-4'	2/25/14	0815	S	1	X			Low Conc
Beam SN-276			0820	S	1	X			
Beam SN-326			0825	S	1	X			Reporting Limit 0.1 mg/kg
Beam SN-376			0830	S	1	X			For Arc PCB Samples
Beam SN-526			0835	S	1	X			
Beam SN-576			0840	S	1	X			
Beam SN-1126			0845	S	1	X			
Beam SN-1176			0850	S	1	X			
Beam SN-1626			0855	S	1	X			
Beam SN-1676			0900	S	1	X			
Beam SN-1826			1115	S	1	X			
Beam SN-1876			1120	S	1	X			
Exc 63N-25E	12-15'	2/25/14	1220	S	1	X			Potential Hwy # Conc.
Exc 68N-25E	6-7'		1225	S	1	X			
Exc 58N-25E	6-7'		1230	S	1	X			

Relinquished by (Signature): [Signature]	Received by (Signature): [Signature]	Laboratory Name: Low-Test Analytical
Date/Time: 2/25/14 1400	Date/Time: 2/26/14 9:55	Laboratory Location: East Longmeadow, MA
Relinquished by (Signature): [Signature]	Received by (Signature): [Signature]	Custody Seal Numbers:
Date/Time:	Date/Time:	Method of Shipment: FedEx
Turn-Around Time: 24 Hours (Anl. Rpt.)	Tracking Number:	

☐ Reston Office: 11150 Sunrise Valley Dr., #300, Reston, VA 20191 / Tel: 703-709-6500	☐ Denver Office: 4600 South Ulster, #930, Denver, CO 80237 / Tel: 303-850-9200
☐ Pittsburgh Office: 750 Holiday Dr., #410, Pittsburgh, PA 15220 / Tel: 412-604-1040	☐ Minneapolis Office: 123 North 3rd St., #808, Minneapolis, MN 55401 / Tel: 612-343-0510
☐ San Jose Office: 2025 Gateway Place, #435, San Jose, CA 95110 / Tel: 408-453-6100	☐ Woburn Office: 300 Trade Center, Suite 4690, Woburn, MA 01801
☐ New Jersey Office: 200 Centennial Ln., Somerset, NJ 08873 / Tel: 732-564-0888	☒ Cazenovia Office: 5 Sullivan St., Cazenovia, NY 13035 / Tel: 315-655-3900



WSP Environment & Energy

Page 2 of 2

WSP Environment & Energy

- ☐ Reston Office: 11190 Sunrise Valley Dr., #300, Reston, VA 20191 / Tel: 703-769-6500
- ☐ Pittsburgh Office: 750 Holiday Dr., #410, Pittsburgh, PA 15220 / Tel: 412-604-1040
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- ☒ Cazenovia Office: 5 Sullivan St., Cazenovia, NY 13035 / Tel: 315-655-3900

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Page 1 of 2



Sample Receipt Checklist

CLIENT NAME: WSP RECEIVED BY: PB DATE: 2-26-14

1) Was the chain(s) of custody relinquished and signed? ☒ Yes ☐ No ☐ No CoC Included

2) Does the chain agree with the samples?

☒ Yes ☐ No

If not, explain:

3) Are all the samples in good condition?

☒ Yes ☐ No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? ☒ Yes ☐ No ☐ N/A

Temperature °C by Temp blank 2.0 Temperature °C by Temp gun _____

5) Are there Dissolved samples for the lab to filter?

Yes ☒ No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples?

☒ Yes ☐ No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

Log in

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	<u>22</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Doc# 277

Rev: 4 August 2013

Page 2 of 2
Login Sample Receipt Checklist
(Rejection Criteria Listing - Using Sample Acceptance Policy)
Any False statement will be brought to the attention of Client

<u>Question</u>	<u>Answer (True/False)</u>	<u>Comment</u>
	<u>T/F/NA</u>	
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Doc #277 Rev. 4 August 2013

Who notified of False statements?

Log-In Technician Initials: PB

Date/Time:

Date/Time: 2-26-14

9:55

Worksheets

PERCENT SOLIDS

Preservative - Cool < 4C
Hold Time - 7 days

Sample Date	Sample ID	Laboratory ID	Matrix	Preservative	Days to Analysis	Date Analyzed	Dish Wgt	Sample Mass Wet	Sample Mass Dry	Calcd %S	Rptd %S
1 02/25/14	Berm-5N-22E	14B0729-01	Solid	Cool <4C	1	2/26/14	1.044	14.234	12.196	84.5	84.5
2 02/25/14	Berm-5N-27E	14B0729-02	Solid	Cool <4C	1	2/26/14	1.027	9.776	8.114	81.0	81
3 02/25/14	Berm-5N-32E	14B0729-03	Solid	Cool <4C	1	2/26/14	1.04	13.968	11.634	81.9	81.9
4 02/25/14	Berm-5N-37E	14B0729-04	Solid	Cool <4C	1	2/26/14	1.028	13.495	11.334	82.7	82.7
5 02/25/14	Berm-5N-52E	14B0729-05	Solid	Cool <4C	1	2/26/14	1.028	12.492	11.124	88.1	88.1
6 02/25/14	Berm-5N-57E	14B0729-06	Solid	Cool <4C	1	2/26/14	1.03	8.959	7.115	76.7	76.7
7 02/25/14	Berm-5N-112E	14B0729-07	Solid	Cool <4C	1	2/26/14	1.032	12.236	10.564	85.1	85.1
8 02/25/14	Berm-5N-117E	14B0729-08	Solid	Cool <4C	1	2/26/14	1.042	14.001	12.014	84.7	84.7
9 02/25/14	Berm-5N-162E	14B0729-09	Solid	Cool <4C	1	2/26/14	1.038	8.217	7.018	83.3	83.3
10 02/25/14	Berm-5N-167E	14B0729-10	Solid	Cool <4C	1	2/26/14	1.03	12.414	10.547	83.6	83.6
11 02/25/14	Berm-5N-182E	14B0729-11	Solid	Cool <4C	1	2/26/14	1.029	12.951	10.965	83.3	83.3
12 02/25/14	Berm-5N-187E	14B0729-12	Solid	Cool <4C	1	2/26/14	1.027	13.809	11.57	82.5	82.5
13 02/25/14	Exc-63N-25E	14B0729-13	Solid	Cool <4C	1	2/26/14	1.019	17.007	15.528	90.7	90.7
14 02/25/14	Exc-68N-25E	14B0729-14	Solid	Cool <4C	1	2/26/14	1.023	15.846	14.428	90.4	90.4
15 02/25/14	Exc-58N-25E	14B0729-15	Solid	Cool <4C	1	2/26/14	1.022	14.401	11.877	81.1	81.1
16 02/25/14	Exc-63N-35E	14B0729-16	Solid	Cool <4C	1	2/26/14	1.031	25.427	21.356	83.3	83.3
17 02/25/14	Exc-68N-35E	14B0729-17	Solid	Cool <4C	1	2/26/14	1.029	12.785	10.971	84.6	84.6
18 02/25/14	Exc-58N-35E	14B0729-18	Solid	Cool <4C	1	2/26/14	1.036	12.179	10.713	86.8	86.8
19 02/25/14	Exc-58N-45E	14B0729-19	Solid	Cool <4C	1	2/26/14	1.035	13.403	11.653	85.9	85.9
20 02/25/14	Exc-63N-45E	14B0729-20	Solid	Cool <4C	1	2/26/14	1.034	14.054	11.884	83.3	83.3
21 02/25/14	Exc-68N-45E	14B0729-21	Solid	Cool <4C	1	2/26/14	1.032	11.701	10.709	90.7	90.7
22 02/25/14	Exc-63N-53E	14B0729-22	Solid	Cool <4C	1	2/26/14	1.038	16.372	14.672	88.9	88.9

Berm-5N-22E Exc-63N-53E

Sample 84.5 88.9

Dup 84.8 88.9

RPD -0.354 0.000

RPD Rpid 0.354 0

RPD = ((LCS-LCOW)/((LCS+LCOW)/2))*100

CON-TEST LABORATORY

PERCENT SOLIDS

	TEMP IN: 104 °C	dish	dish & sample	time	date	sample	dried dish & sample	time	date	dried sample	% solid
	B090943										
MLA	14B0365-01	1.030	7.114	13:15	02/26/2014	6.0840	6.249	07:26	02/27/2014	5.2190	85.8
MLA	14B0365-02	1.033	13.501	13:16	02/26/2014	12.4680	10.983	07:27	02/27/2014	9.9500	79.8
MLA	14B0365-03	1.031	15.434	13:17	02/26/2014	14.4030	12.346	07:27	02/27/2014	11.3150	78.6
MLA	14B0509-01	1.035	12.477	13:19	02/26/2014	11.4420	11.345	07:27	02/27/2014	10.3100	90.1
MLA	14B0509-02	1.030	8.504	13:20	02/26/2014	7.4740	8.218	07:27	02/27/2014	7.1880	96.2
MLA	14B0509-03	1.035	8.618	13:20	02/26/2014	7.5830	8.232	07:27	02/27/2014	7.1970	94.9
MLA	14B0509-04	1.036	9.156	13:23	02/26/2014	8.1200	8.281	07:27	02/27/2014	7.2450	89.2
MLA	14B0509-05	1.037	6.321	13:25	02/26/2014	5.2840	6.081	07:27	02/27/2014	5.0440	95.5
MLA	14B0540-01	1.042	12.262	13:25	02/26/2014	11.2200	11.271	07:28	02/27/2014	10.2290	91.2
MLA	14B0540-02	1.037	12.395	13:26	02/26/2014	11.3580	11.212	07:28	02/27/2014	10.1750	89.6
MLA	14B0540-03	1.049	13.848	13:27	02/26/2014	12.7990	11.837	07:28	02/27/2014	10.7880	84.3
MLA	14B0540-04	1.041	16.395	13:28	02/26/2014	15.3540	14.399	07:28	02/27/2014	13.3580	87.0
MLA	14B0540-05	1.028	11.679	13:28	02/26/2014	10.6510	10.957	07:28	02/27/2014	9.9290	93.2
MLA	14B0540-06	1.018	15.295	13:29	02/26/2014	14.2770	13.706	07:28	02/27/2014	12.6880	88.9
MLA	14B0540-07	1.017	13.636	13:29	02/26/2014	12.6190	11.927	07:28	02/27/2014	10.9100	86.5
MLA	14B0540-08	1.030	14.430	13:30	02/26/2014	13.4000	12.517	07:28	02/27/2014	11.4870	85.7
MLA	14B0540-09	1.033	15.913	13:30	02/26/2014	14.8800	14.194	07:28	02/27/2014	13.1610	88.4
MLA	14B0540-10	1.033	11.607	13:31	02/26/2014	10.5740	10.794	07:29	02/27/2014	9.7610	92.3
MLA	14B0540-11	1.026	13.995	13:31	02/26/2014	12.9690	13.074	07:29	02/27/2014	12.0480	92.9
MLA	14B0540-12	1.022	16.725	13:32	02/26/2014	15.7030	14.467	07:29	02/27/2014	13.4450	85.6
MLA	14B0540-13	1.022	16.053	13:32	02/26/2014	15.0310	13.738	07:30	02/27/2014	12.7160	84.6
MLA	14B0540-14	1.027	19.739	13:33	02/26/2014	18.7120	16.801	07:31	02/27/2014	15.7740	84.3
MLA	14B0540-15	1.039	16.686	13:33	02/26/2014	15.6470	15.630	07:31	02/27/2014	14.5910	93.3
MLA	14B0540-16	1.038	11.856	13:34	02/26/2014	10.8180	10.947	07:31	02/27/2014	9.9090	91.6
MLA	14B0540-17	1.040	14.541	13:35	02/26/2014	13.5010	12.895	07:31	02/27/2014	11.8550	87.8
MLA	14B0540-18	1.026	20.942	13:36	02/26/2014	19.9160	17.858	07:31	02/27/2014	16.8320	84.5
MLA	14B0540-19	1.044	14.805	13:36	02/26/2014	13.7610	13.137	07:31	02/27/2014	12.0930	87.9
MLA	14B0540-20	1.042	11.310	13:37	02/26/2014	10.2680	10.189	07:31	02/27/2014	9.1470	89.1
MLA	14B0540-21	1.031	15.864	13:38	02/26/2014	14.8330	14.346	07:32	02/27/2014	13.3150	89.8

CON-TEST LABORATORY

PERCENT SOLIDS

MLA	14B0540-22	1.045	g	12.611	g	13:39	02/26/2014	11.5660	11.394	g	07:32	02/27/2014	10.3490	89.5
MLA	14B0540-23	1.012	g	17.832	g	13:39	02/26/2014	16.8200	15.488	g	07:32	02/27/2014	14.4760	86.1
MLA	14B0540-24	1.032	g	12.033	g	13:40	02/26/2014	11.0010	10.694	g	07:32	02/27/2014	9.6620	87.8
MLA	14B0540-25	1.033	g	17.756	g	13:41	02/26/2014	16.7230	15.640	g	07:32	02/27/2014	14.6070	87.3
MLA	14B0540-26	1.023	g	20.998	g	13:41	02/26/2014	19.9750	17.956	g	07:32	02/27/2014	16.9330	84.8
MLA	14B0540-27	1.029	g	16.221	g	13:42	02/26/2014	15.1920	14.326	g	07:33	02/27/2014	13.2970	87.5
MLA	14B0540-28	1.013	g	15.545	g	13:43	02/26/2014	14.5320	13.356	g	07:33	02/27/2014	12.3430	84.9
MLA	14B0540-29	1.02	g	20.189	g	13:43	02/26/2014	19.1690	17.019	g	07:33	02/27/2014	15.9990	83.5
MLA	14B0540-30	1.039	g	16.280	g	13:44	02/26/2014	15.2410	14.934	g	07:33	02/27/2014	13.8950	91.2
MLA	14B0540-31	1.037	g	12.570	g	13:44	02/26/2014	11.5330	11.600	g	07:33	02/27/2014	10.5630	91.6
MLA	14B0540-32	1.027	g	18.645	g	13:45	02/26/2014	17.6180	16.111	g	07:33	02/27/2014	15.0840	85.6
MLA	14B0540-33	1.026	g	13.211	g	13:46	02/26/2014	12.1850	11.261	g	07:34	02/27/2014	10.2350	84.0
MLA	14B0540-34	1.033	g	9.766	g	13:46	02/26/2014	8.7330	8.866	g	07:34	02/27/2014	7.8330	89.7
MLA	14B0540-35	1.038	g	12.688	g	13:47	02/26/2014	11.6500	11.009	g	07:34	02/27/2014	9.9710	85.6
MLA	14B0694-01	1.039	g	9.175	g	13:48	02/26/2014	8.1360	8.690	g	07:34	02/27/2014	7.6510	94.0
MLA	14B0694-02	1.025	g	13.334	g	13:49	02/26/2014	12.3090	11.888	g	07:35	02/27/2014	10.8630	88.3
MLA	14B0694-03	1.024	g	8.896	g	13:50	02/26/2014	7.8720	7.993	g	07:35	02/27/2014	6.9690	88.5
MLA	14B0694-04	1.030	g	8.521	g	13:51	02/26/2014	7.4910	7.797	g	07:35	02/27/2014	6.7670	90.3
MLA	14B0694-05	1.028	g	10.453	g	13:51	02/26/2014	9.4250	9.260	g	07:35	02/27/2014	8.2320	87.3
MLA	14B0694-06	1.033	g	12.315	g	13:52	02/26/2014	11.2820	10.957	g	07:35	02/27/2014	9.9240	88.0
MLA	14B0694-07	1.032	g	10.461	g	13:52	02/26/2014	9.4290	9.389	g	07:37	02/27/2014	8.3570	88.6
MLA	14B0694-08	1.019	g	8.563	g	13:53	02/26/2014	7.5440	7.640	g	07:38	02/27/2014	6.6210	87.8
MLA	14B0694-09	1.013	g	9.935	g	13:53	02/26/2014	8.9220	8.673	g	07:38	02/27/2014	7.6600	85.9
MLA	14B0694-10	1.023	g	9.639	g	13:53	02/26/2014	8.6160	8.694	g	07:38	02/27/2014	7.6710	89.0
MLA	14B0694-11	1.028	g	10.376	g	13:54	02/26/2014	9.3480	8.767	g	07:38	02/27/2014	7.7390	82.8
MLA	14B0694-12	1.014	g	8.576	g	13:54	02/26/2014	7.5620	7.602	g	07:38	02/27/2014	6.5880	87.1
MLA	14B0694-13	1.024	g	17.808	g	13:55	02/26/2014	16.7840	15.153	g	07:38	02/27/2014	14.1290	84.2
MLA	14B0694-14	1.022	g	12.997	g	13:55	02/26/2014	11.9750	11.082	g	07:39	02/27/2014	10.0600	84.0
MLA	14B0694-15	1.028	g	9.049	g	13:56	02/26/2014	8.0210	7.854	g	07:39	02/27/2014	6.8260	85.1
MLA	14B0694-16	1.028	g	9.815	g	13:56	02/26/2014	8.7870	8.443	g	07:39	02/27/2014	7.4150	84.4
MLA	14B0694-17	1.029	g	12.427	g	13:57	02/26/2014	11.3980	10.917	g	07:39	02/27/2014	9.8880	86.8
MLA	14B0729-01	1.044	g	14.234	g	13:58	02/26/2014	13.1900	12.196	g	07:40	02/27/2014	11.1520	84.5
MLA	14B0729-02	1.027	g	9.776	g	13:59	02/26/2014	8.7490	8.114	g	07:40	02/27/2014	7.0870	81.0
MLA	14B0729-03	1.040	g	13.968	g	14:00	02/26/2014	12.9280	11.634	g	07:40	02/27/2014	10.5940	81.9

CON-TEST LABORATORY

PERCENT SOLIDS

MLA	14B0729-04	1.028	g	13.495	g	14:01	02/26/2014	12.4670	11.334	g	07:40	02/27/2014	10.3060	82.7
MLA	14B0729-05	1.028	g	12.492	g	14:01	02/26/2014	11.4640	11.124	g	07:40	02/27/2014	10.0960	88.1
MLA	14B0729-06	1.030	g	8.959	g	14:02	02/26/2014	7.9290	7.115	g	07:40	02/27/2014	6.0850	76.7
MLA	14B0729-07	1.032	g	12.236	g	14:03	02/26/2014	11.2040	10.564	g	07:41	02/27/2014	9.5320	85.1
MLA	14B0729-08	1.042	g	14.001	g	14:04	02/26/2014	12.9590	12.014	g	07:41	02/27/2014	10.9720	84.7
MLA	14B0729-09	1.038	g	8.217	g	14:04	02/26/2014	7.1790	7.018	g	07:41	02/27/2014	5.9800	83.3
MLA	14B0729-10	1.030	g	12.414	g	14:05	02/26/2014	11.3840	10.547	g	07:41	02/27/2014	9.5170	83.6
MLA	14B0729-11	1.029	g	12.951	g	14:06	02/26/2014	11.9220	10.965	g	07:41	02/27/2014	9.9360	83.3
MLA	14B0729-12	1.027	g	13.809	g	14:07	02/26/2014	12.7820	11.570	g	07:43	02/27/2014	10.5430	82.5
MLA	14B0729-13	1.019	g	17.007	g	14:07	02/26/2014	15.9880	15.528	g	07:43	02/27/2014	14.5090	90.7
MLA	14B0729-14	1.023	g	15.846	g	14:08	02/26/2014	14.8230	14.428	g	07:43	02/27/2014	13.4050	90.4
MLA	14B0729-15	1.022	g	14.401	g	14:08	02/26/2014	13.3790	11.877	g	07:43	02/27/2014	10.8550	81.1
MLA	14B0729-16	1.031	g	25.427	g	14:09	02/26/2014	24.3960	21.356	g	07:43	02/27/2014	20.3250	83.3
MLA	14B0729-17	1.029	g	12.785	g	14:10	02/26/2014	11.7560	10.971	g	07:43	02/27/2014	9.9420	84.6
MLA	14B0729-18	1.036	g	12.179	g	14:11	02/26/2014	11.1430	10.713	g	07:44	02/27/2014	9.6770	86.8
MLA	14B0729-19	1.035	g	13.403	g	14:11	02/26/2014	12.3680	11.653	g	07:44	02/27/2014	10.6180	85.9
MLA	14B0729-20	1.034	g	14.054	g	14:12	02/26/2014	13.0200	11.884	g	07:44	02/27/2014	10.8500	83.3
MLA	14B0729-21	1.032	g	11.701	g	14:13	02/26/2014	10.6690	10.709	g	07:45	02/27/2014	9.6770	90.7
MLA	14B0729-22	1.038	g	16.372	g	14:13	02/26/2014	15.3340	14.672	g	07:45	02/27/2014	13.6340	88.9
MLA	DUP1(14B0365-01)	1.034	g	9.220	g	13:15	02/26/2014	8.1860	8.035	g	07:45	02/27/2014	7.0010	85.5
MLA	DUP2(14B0729-01)	1.028	g	10.405	g	13:59	02/26/2014	9.3770	8.984	g	07:45	02/27/2014	7.9560	84.8
MLA	DUP3(14B0509-01)	1.026	g	13.097	g	13:19	02/26/2014	12.0710	11.919	g	07:45	02/27/2014	10.8930	90.2
MLA	DUP4(14B0540-01)	1.036	g	10.517	g	13:26	02/26/2014	9.4810	9.669	g	07:46	02/27/2014	8.6330	91.1
MLA	DUP5(14B0540-16)	1.041	g	12.759	g	13:35	02/26/2014	11.7180	11.704	g	07:46	02/27/2014	10.6630	91.0
MLA	DUP6(14B0540-21)	1.045	g	10.528	g	13:38	02/26/2014	9.4830	9.577	g	07:46	02/27/2014	8.5320	90.0
MLA	DUP7(14B0540-35)	1.038	g	9.789	g	13:47	02/26/2014	8.7510	8.500	g	07:46	02/27/2014	7.4620	85.3
MLA	DUP8(14B0694-01)	1.029	g	11.931	g	13:49	02/26/2014	10.9020	11.313	g	07:46	02/27/2014	10.2840	94.3
MLA	DUP9(14B0729-22)	1.020	g	10.058	g	14:14	02/26/2014	9.0380	9.051	g	07:46	02/27/2014	8.0310	88.9



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

DUPLICATES

Berm-5N-22E

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0729
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Laboratory ID:	B090943-DUP2
Batch:	B090943	Initial/Final:	5 g / 5 g
Preparation:	% Solids	Analysis:	SM 2540G
% Solids:	84.50		

ANALYTE	SAMPLE	DUPLICATE	RPD	Q	CONTROL
	CONCENTRATION	CONCENTRATION			
	(% Wt)	(% Wt)	%		LIMIT
% Solids	84.5	84.8	0.354		20



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DUPLICATES

Exc-63N-53E

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0729
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Laboratory ID:	B090943-DUP9
Batch:	B090943	Initial/Final:	5 g / 5 g
Preparation:	% Solids	Analysis:	SM 2540G
% Solids:	88.90		

ANALYTE	SAMPLE CONCENTRATION (% Wt)	DUPLICATE CONCENTRATION (% Wt)	RPD %	Q	CONTROL LIMIT
% Solids	88.9	88.9	0.00		20

Hold Times for PCBs - 8082

Preservative - 100% v/v AC
Hold Time - 7 days to extraction liquids, 14 days to extraction solids, 40 days to analysis liquids and solids

Sample #	Sample Date	Sample ID	Laboratory ID	Matrix	Preservative	Days to Extraction	Date Extracted	Days to Analysis	Date Analyzed	DF	Prep Batch
1	02/25/14	Berm-5N-23E	14B0729-01	Solid	OK		2/26/14	0	2/26/14	1X	B090939
2	02/25/14	Berm-5N-23E	14B0729-02	Solid	OK		2/26/14	0	2/26/14	1X	B090939
3	02/25/14	Berm-5N-23E	14B0729-03	Solid	OK		2/26/14	0	2/26/14	1X	B090939
4	02/25/14	Berm-5N-17E	14B0729-04	Solid	OK		2/26/14	0	2/26/14	1X	B090939
5	02/25/14	Berm-5N-17E	14B0729-05	Solid	OK		2/26/14	0	2/26/14	1X	B090939
6	02/25/14	Berm-5N-17E	14B0729-06	Solid	OK		2/26/14	0	2/26/14	1X	B090939
7	02/25/14	Berm-5N-11E	14B0729-07	Solid	OK		2/26/14	0	2/26/14	1X	B090939
8	02/25/14	Berm-5N-11E	14B0729-08	Solid	OK		2/26/14	0	2/26/14	1X	B090939
9	02/25/14	Berm-5N-16E	14B0729-09	Solid	OK		2/26/14	0	2/26/14	1X	B090939
10	02/25/14	Berm-5N-16E	14B0729-10	Solid	OK		2/26/14	0	2/26/14	1X	B090939
11	02/25/14	Berm-5N-18E	14B0729-11	Solid	OK		2/26/14	0	2/26/14	1X	B090939
12	02/25/14	Berm-5N-18E	14B0729-12	Solid	OK		2/26/14	0	2/26/14	1X	B090939
13	02/25/14	Exc-6N-23E	14B0729-13	Solid	OK		2/26/14	0	2/26/14	1X	B090939
14	02/25/14	Exc-6N-23E	14B0729-14	Solid	OK		2/26/14	0	2/26/14	1X	B090939
15	02/25/14	Exc-6N-23E	14B0729-15	Solid	OK		2/26/14	0	2/26/14	1X	B090939
16	02/25/14	Exc-6N-23E	14B0729-16	Solid	OK		2/26/14	0	2/26/14	1X	B090939
17	02/25/14	Exc-6N-15E	14B0729-17	Solid	OK		2/26/14	0	2/26/14	1X	B090939
18	02/25/14	Exc-6N-15E	14B0729-18	Solid	OK		2/26/14	0	2/26/14	1X	B090939
19	02/25/14	Exc-6N-15E	14B0729-19	Solid	OK		2/26/14	0	2/26/14	1X	B090939
20	02/25/14	Exc-6N-15E	14B0729-20	Solid	OK		2/26/14	0	2/26/14	1X	B090939
21	02/25/14	Exc-6N-15E	14B0729-21	Solid	OK		2/26/14	0	2/26/14	1X	B090939
22	02/25/14	Exc-6N-15E	14B0729-22	Solid	OK		2/26/14	0	2/26/14	1X	B090939

Calculations for PCBs - 8082

Lab. m is used for validation unless otherwise noted

1 CS/LCSD

Sample #	Amount	Found	Amount Spiked	%R	Form 3
1 CS	0.2	0.2	0.2	99.7	
LCSD	0.15	0.2		93.3	
RPD	5.1			5	2.67

Recovery = (Amount Found / Amount Spiked) * 100
RPD = ((LCSD / CS) * 100) - 100

Lab. m is used for validation unless otherwise noted

MS/MSD

Sample	Amount	Found	Amount Spiked	%R	Form 3
MS	0.19	0.2	0.2	90.2	
MSD	0.2	0.2	0.2	84.4	
RPD	5.13			5.13	2.282

Recovery = (Amount Found / Amount Spiked) * 100
RPD = ((MSD / MS) * 100) - 100

Calibration

WFO time 2008 PCB error is used for calculation unless otherwise noted
 %RSD < 5.0%
 Error: 0.00

Instrument	IC51	CCV	CCV
Date	HP59012		
Time	2:15:11		

Initial Calibration Calculation Check

Date	10/14		
Instrument	IC51		
Compound	PCB 3		
Column	Lead Peak 1		
Reported Average CF	4.51E+05	Reported Average CF	4.51E+05
Calculated Average CF	460275.0000	Calculated Average CF	552675.0000
Reported RSD	5.7000	Reported RSD	6.2466
Calculated RSD	5.8812	Calculated RSD	8.8987
RRF-avg(RRF) ^{1/2}	16.6010000	RRF-avg(RRF) ^{1/2}	17.4500000
RRF1	4.54E+05	RRF1	6.30E+05
RRF2	4.30E+05	RRF2	5.48E+05
RRF3	4.50E+05	RRF3	5.11E+05
RRF4	4.32E+05	RRF4	5.11E+05
RRF5		RRF5	1.28E+06
NUM	18.1166	NUM	22.0700
(Sum(N-1) ²)/N	26712.279	(Sum(N-1) ²)/N	484.745927
(Sum(N-1) ²)/N	0.058811697	(Sum(N-1) ²)/N	0.04895746
N	4	N	4
N-1	3	N-1	3
Reported Amount	460000.00	Reported Amount	510000.00
Calculated Amount	46010.100	Calculated Amount	510865.370
Compound Area (SI)	4.60E+07	Compound Area	5.31E+07
Compound Conc (C1)	100	Compound Conc	100
Date	2/19/14		
Instrument	IC51		
Compound	Lead Peak 1		
Column	1	Column	2
Reported Average CF	8.82E+05	Reported Average CF	3.51E+05
Calculated Average CF	89825.0000	Calculated Average CF	374025.0000
Reported RSD	5.9000	Reported RSD	12.130
Calculated RSD	6.7596	Calculated RSD	12.2483
RRF-avg(RRF) ^{1/2}	0.7596	RRF-avg(RRF) ^{1/2}	4.74710000
RRF1	9.78E+05	RRF1	4.32E+05
RRF2	8.79E+05	RRF2	3.75E+05
RRF3	8.36E+05	RRF3	3.55E+05
RRF4	8.43E+05	RRF4	3.51E+05
RRF5		RRF5	1.05E+06
NUM	4.992160	NUM	14.98500
(Sum(N-1) ²)/N	9902.18997	(Sum(N-1) ²)/N	66510.4388
(Sum(N-1) ²)/N	0.067566705	(Sum(N-1) ²)/N	0.2248468
N	4	N	4
N-1	3	N-1	3
Reported Amount	85000.00	Reported Amount	374000.00
Calculated Amount	84905.980	Calculated Amount	374856.160
Compound Area (C1)	4.25E+07	Compound Area	1.87E+07
Compound Conc (C1)	50	Compound Conc	50

72

Confirming Calibration Calculations Check NFO vs. 15% Duplicates

Date	2/7/14
Time	1:09
Inst. Name	FID 5
Compound	200 Peak 1
Collection	1
Rptd Amt Peak 1	58.69
Calculated Amount	58.686
Compound Area (A1)	2665175
Compound Conc (C1)	50
ICAL RRF Peak 1	4.54E+05
Peak 1	58.689
Peak 2	51.882
Peak 3	58.228
Peak 4	55.197
Peak 5	56.477
Avg Amt 1260	58.1156
Rpt Amt 1260	58.16
Exptd Amt. 1260	50
Rpt %D	16.2
Calcd %D	-16.2%

Date	2/27/14
Inst. Name	FID 5
Compound	1260 Peak 1
Collection	1
Rptd Amt Peak	41.04
Calculated Amt	53.043
Compound Area	46775611
Compound Conc	50
ICAL RRF Peak	8.82E+05
Peak 1	53.043
Peak 2	51.672
Peak 3	52.975
Peak 4	50.134
Peak 5	56.281
Avg Amt 1260	53.8214
Rpt Amt 1260	54.80
Exptd Amt 1260	50
Rpt %D	9.6
Calcd %D	-9.6%

	1
	67.72
	62.212
	27601.889
	50
	1.62E+05
	62.219
	58.61
	58.504
	51.069
	57.551
	58.8349
	58.80
	50
	17.7
	-17.8%

Serotype Calculation Check
Lab limit used for valid on unless otherwise noted
NFC 30-150%

Sample ID Bern-SH-122E1a7

SURR	AMOUNT FOUND	AMOUNT SPIKED	%R	FORM 2
TCX 1	33.631	40	84.1	84.1
TCX 2	29.788	40	87.0	87.0
DCB 1	32.158	40	80.4	80.4
DCB 2	34.241	40	85.6	85.6

Quantitation Calculation Check

Sample Bern-SH-122E1a7

Lab ID LAB0729-07

Compound PCB 122E

Final Result mg/kg 1.1

Instrument SCD 5

Column	Col 1	Col 2	Avg Conc ug/L	Final Conc mg/kg
Peak 1	1.56E+08	177.8042	130.5727	1.351
CF	8.82E+05	3.53E+05	10.000	0.001
Peak 2	2.49E+08	83.4417	175.2405	1.751
CF	1.35E+06	7.17E+05	108.0616	1.081
Peak 3	1.36E+08	167.9154	175.4627	1.755
CF	5.16E+05	3.05E+05	10.000	0.001
Peak 4	1.4E+08	151.1219	130.5727	1.351
CF	3.33E+05	1.24E+06	10.000	0.001
Peak 5	3.04E+08	163.1463	130.5727	1.351
CF	1.87E+06	1.07E+06	10.000	0.001
Avg Conc ug/L	130.5727	130.5727	130.5727	1.351
Extract Vol g	10.000	10.000	10.000	10.000
Final Vol mL	10	10	10	10
Dil	5	5	5	5
Conversion	0.001	0.001	0.001	0.001
%Solids	0.85	0.85	0.85	0.85
Final Conc mg/kg	0.001	0.001	0.001	0.001

Sample Bern-SH-162E1a

Lab ID LAB0729-09

Compound PCB 122E

Final Result mg/kg 0.15

Instrument ECD 5

Column	Col 1	Col 2	Avg Conc ug/L	Final Conc mg/kg
Peak 1	1.45E+02	9.1162	12.2050	0.47
CF	1.70E+05	3.70E+05	10.000	0.001
Peak 2	6.31067	5.8057	10.000	0.001
CF	3.48E+05	1.96E+05	10.000	0.001
Peak 3	6.62417	1.3762	10.000	0.001
CF	5.35E+05	1.27E+05	10.000	0.001
Peak 4	5.14E+05	6.6800	10.000	0.001
CF	5.37E+05	3.16E+05	10.000	0.001
Peak 5	5.37E+05	6.27E+05	10.000	0.001
Avg Conc ug/L	12.2050	12.2050	12.2050	0.47
Extract Vol g	10.000	10.000	10.000	10.000
Final Vol mL	10	10	10	10
Dil	10	10	10	10
Conversion	0.001	0.001	0.001	0.001
%Solids	0.85	0.85	0.85	0.85
Final Conc mg/kg	0.47	0.47	0.47	0.47

2 - FORM II

SYSTEM MONITORING COMPOUND SUMMARY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	SDG:	14B0729
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Instrument:	ECD5

	DCB 1 (30% - 150%)	DCB 2 (30% - 150%)	TCX 1 (30% - 150%)	TCX 2 (30% - 150%)
14B0729-01	85.5	92.8	83.8	90.1
14B0729-02	83.2	92.7	83.1	89.8
14B0729-03	74.2	81.8	76.2	82.1
14B0729-04	74.2	82.0	79.3	85.7
14B0729-05	76.1	83.9	79.1	85.8
14B0729-06	93.0	103	95.9	102
14B0729-07	80.4	85.6	84.1	87.0
14B0729-08	83.4	88.1	87.0	90.2
14B0729-09	88.9	94.4	89.3	91.9
14B0729-10	89.4	95.1	91.2	94.6
14B0729-11	85.0	97.3	86.9	96.3
14B0729-12	89.8	103	92.2	102
14B0729-13	-	-	-	- 50X
14B0729-14	87.0	90.4	89.6	81.4
14B0729-15	81.8	93.0	79.6	87.4
14B0729-16	-	-	-	- 200X
14B0729-17	89.7	92.1	92.3	85.9
14B0729-18	85.0	98.7	82.6	91.4
14B0729-19	77.0	88.5	71.9	78.9
14B0729-20	96.9	98.9	94.9	86.2
B090939-BLK1	81.3	81.4	79.3	80.8
B090939-BS1	90.9	87.9	88.5	87.3
B090939-BSD1	96.2	94.9	98.0	98.0
B090939-MS1	79.3	92.0	79.9	87.9
B090939-MSD1	80.2	92.6	77.9	85.6



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2 - FORM II
SYSTEM MONITORING COMPOUND SUMMARY
SW-846 8082A

Laboratory: Con-Test Analytical Laboratory SDG: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Instrument: ECD5

	OCB 1 (30% - 150%)	OCB 2 (30% - 150%)	TCX 1 (30% - 150%)	TCX 2 (30% - 150%)
14B0729-21	69.0	70.1	71.4	63.9
14B0729-22	109	106	101	90.4
B090940-BLK1	82.4	84.2	82.7	86.1
B090940-B51	94.6	93.6	94.7	95.0
B090940-BSD1	90.0	89.8	92.8	93.2

78

Data Path : C:\msdchem\1\DATA\022714\
 Data File : E0227012.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Feb 2014 10:46 am
 Operator : JMB
 Sample : 14B0729-07ASX Inst : ECD 5
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
 Integration File signal 2: 1260-B.E
 Quant Time: Feb 27 11:29:29 2014
 Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-021914C.M
 Quant Title : 1260/1016 02/19/14 12/05/13
 QLast Update : Wed Feb 19 14:18:48 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) SA Tetrachlo...	2.978	3.277	586.3E6	525.8E6	33.631	34.788
Spiked Amount	20.000 Range	60 - 150	Recovery	=	168.16%#	173.94%#
2) SA Decachlor...	7.055	7.598	445.9E6	346.6E6	32.158	34.241
Spiked Amount	20.000 Range	60 - 150	Recovery	=	160.79%#	171.21%#
Target Compounds						
3) L1 1016{1}	3.896	4.383	1287006	1137652	1.516	1.738
4) L1 1016{2}	0.000	0.000	0	0	N.D.	N.D.
5) L1 1016{3}	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016{4}	0.000	4.647	0	2532835	N.D.	9.532 #
7) L1 1016{5}	4.310	4.870	1510341	1015556	3.259	2.665
Sum 1016			2797347	4686043	4.776	13.935
Average 1016					2.388	4.645
8) L7 1260{1}	5.267	5.777	156.1E6	57957076	176.988	159.504
9) L7 1260{2}	5.490	5.906	249.3E6	125.7E6	183.400	175.270
10) L7 1260{3}	5.806	6.060	136.4E6	159.4E6	167.090	198.072
12) L7 1260{4}	5.998	6.573	134.3E6	124.0E6	151.341	176.599
12) L7 1260{5}	6.219	6.720	303.7E6	265.5E6	162.173	193.436
Sum 1260			979.8E6	732.6E6	840.992	902.881
Average 1260					168.198	180.576

{f}=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:
 John Deane
 FEB 27 2014

79

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\022714\
 Data File : E0227014.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Feb 2014 11:12 am
 Operator : JMB
 Sample : 14B0729-09@10X Inst : ECD 5
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: 1248-F.E
 Integration File signal 2: 1248-back.E
 Quant Time: Feb 27 12:29:52 2014
 Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1248-021914.M
 Quant Title : 1248 02/11/14 08/29/13
 QLast Update : Wed Feb 19 14:24:36 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/L

System Monitoring Compounds						
1) SA Tetrachlo...	2.978	3.277	311.2E6	277.8E6	17.852	18.379
Spiked Amount	20.000 Range	60 - 150	Recovery	=	89.26%	91.90%
2) SA Decachlor...	7.055	7.598	246.5E6	191.2E6	17.777	18.886
Spiked Amount	20.000 Range	60 - 150	Recovery	=	88.89%	94.42%
Target Compounds						
3) L5 1248{1}	3.895	4.382	3456442	2976897	9.334	9.014
4) L5 1248{2}	4.136	4.647	6330067	5799836	15.897	14.862
5) L5 1248{3}	4.310	4.870	6094707	5542006	11.396	11.044
6) L5 1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L5 1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248			15881217	14318739	36.627	34.920
Average 1248					12.209	11.640

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
 MDC J FLAS 48

CHECKED BY:
 John Beane

2, 2014

Data Path : C:\msdchem\1\data\022714\
 Data File : C0227013.d
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 27 Feb 2014 10:51 am
 Operator : JMB
 Sample : 1480729-16@200X Inst : DUAL ECD3
 Misc :
 ALS Vial : 13 (Sig #1): 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: F-1248.E
 Integration File signal 2: B-1248.E
 Quant Time: Feb 27 12:04:30 2014
 Quant Method : C:\msdchem\1\methods\3-1248-021914.M
 Quant Title : 1248 12/19/13 08/29/13
 QLast Update : Wed Jan 08 12:56:10 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds							
1)	S TCMX - SU...	3.144	3.506	18002288	13291510	0.976	1.022
2)	S DCB - SUR...	7.223	7.874	18790777	12878969	1.343	1.417
Target Compounds							
3)	L5 1248	6.000	4.917	0	9480610	N.D. d	31.545 #
4)	L5 1248 - (2)	4.512	5.148	16878461	11194426	25.017	28.931
5)	L5 1248 - (3)	4.580	5.459	11585863	8822023	26.414	20.817
6)	L5 1248 - (4)	4.847	0.000	13104173	0	16.824	N.D. d#
7)	L5 1248 - (5)	4.869	5.698	20273637	12626924	30.356	27.758
	Sum 1248			61842134	42123983	98.610	109.051
	Average 1248					24.652	27.263

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

48/60

CHECKED BY: FEB 27 2014
 PIETR GRYSZKIEWICZ

81

Data Path : C:\msdchem\1\data\022714\
 Data File : C0227017.d
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 27 Feb 2014 11:43 am
 Operator : JMB
 Sample : 14B0729-22@10X Inst : DUAL ECD3
 Misc :
 ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: FRONT-1016.E
 Integration File signal 2: 1016-BACK.E
 Quant Time: Feb 27 12:10:47 2014
 Quant Method : C:\msdchem\1\methods\3-1260-021914.M
 Quant Title : 1260/1016 01/07/14 12/05/13
 QLast Update : Wed Jan 08 12:48:21 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds							
1)	S TCMX - SU...	3.143	3.505	373.5E6	235.1E6	20.256	18.086
2)	S DCB - SUR...	7.222	7.874	304.2E6	192.5E6	21.842	21.180
Target Compounds							
3)	L1 1016	3.726	0.000	8527718	0	11.834	N.D. #
4)	L1 1016 - {2}	3.863f	4.647	18563138	31221021	65.493	58.050
5)	L1 1016 - {3}	4.088	4.752	59738596	4809111	68.450	12.741 #
6)	L1 1016 - {4}	4.241	4.847	25025514	15475791	66.628	64.276
7)	L1 1016 - {5}	4.512	5.147	26626069	17307744	56.323	56.204
	Sum 1016			139.5E6	66813667	268.725	191.270
	Average 1016					53.745	47.818
8)	L7 1260	5.371	6.173	79078570	110.056	174.113	202.004
9)	L7 1260 - {2}	5.708	6.314	292.5E6	135.4E6	214.570	212.050
10)	L7 1260 - {3}	6.016	6.615	167.1E6	98268406	203.009	203.120
11)	L7 1260 - {4}	6.198	6.803	200.6E6	111.1E6	231.764	210.774
12)	L7 1260 - {5}	6.409	0.000	404.4E6	0	224.124	N.D. d#
	Sum 1260			1143.7E6	454.9E6	1047.531	827.948
	Average 1260					209.506	206.987

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Berm-5N-27E

SW-846 8082A

Lab Sample ID: 14B0729-02 Date(s) Analyzed: 02/26/2014 02/26/2014
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.019	
	2	0.00	0.00	0.00	0.021	9.5



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Bern-5N-32E***SW-846 8082A*

Lab Sample ID: 14B0729-03 Date(s) Analyzed: 02/26/2014 02/26/2014
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.034	
	2	0.00	0.00	0.00	0.037	9.6



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Berm-5N-57E***SW-846 8082A*

Lab Sample ID: 14B0729-06 Date(s) Analyzed: 02/27/2014 02/27/2014
Instrument ID (1): ECDS Instrument ID (2): ECDS
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.39	
	2	0.00	0.00	0.00	0.41	4.7



358

85

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Berm-5N-112E***SW-846 8082A*

Lab Sample ID: 14B0729-07 Date(s) Analyzed: 02/27/2014 02/27/2014
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.99	
	2	0.00	0.00	0.00	1.1	10.7

✓



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***Berm-5N-117E**

Lab Sample ID: 14B0729-08 Date(s) Analyzed: 02/27/2014 02/27/2014
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.64	
	2	0.00	0.00	0.00	0.67	5.2



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Berm-5N-162E***SW-846 8082A*

Lab Sample ID: 14B0729-09 Date(s) Analyzed: 02/27/2014 02/27/2014
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	0.15	
	2	0.00	0.00	0.00	0.14	4.9
Aroclor-1260	1	0.00	0.00	0.00	1.7	
	2	0.00	0.00	0.00	1.9	8.2

✓



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Benn-5N-167E***SW-846 8082A*

Lab Sample ID: 14B0729-10 Date(s) Analyzed: 02/27/2014 02/27/2014
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.63	
	2	0.00	0.00	0.00	0.64	1.1



362

89

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Bem-5N-182E***SW-846 8082A*

Lab Sample ID: 14B0729-11 Date(s) Analyzed: 02/26/2014 02/26/2014
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.14	
	2	0.00	0.00	0.00	0.15	8.3

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Bern-5N-187E

Lab Sample ID: 14B0729-12 Date(s) Analyzed: 02/26/2014 02/26/2014
 Instrument ID (1): ECD5 Instrument ID (2): ECD5
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.089	
	2	0.00	0.00	0.00	0.092	3.2



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***Berm-63N-25E**

Lab Sample ID: 14B0729-13 Date(s) Analyzed: 02/27/2014 02/27/2014
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	6.5	
	2	0.00	0.00	0.00	7.1	8.4

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Bem-68N-25E

Lab Sample ID: 14B0729-14 Date(s) Analyzed: 02/27/2014 02/27/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.041	
	2	0.00	0.00	0.00	0.045	10.0



366

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Barn-58N-25E***SW-846 8082A*

Lab Sample ID: 14B0729-15 Date(s) Analyzed: 02/26/2014 02/26/2014
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.18	
	2	0.00	0.00	0.00	0.19	3.8

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Bem-63N-35E

Lab Sample ID: 14B0729-16 Date(s) Analyzed: 02/27/2014 02/27/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	5.9	
	2	0.00	0.00	0.00	6.5	10.4
Aroclor-1260	1	0.00	0.00	0.00	26	
	2	0.00	0.00	0.00	26	0.8



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***Bern-68N-35E**

Lab Sample ID: 14B0729-17 Date(s) Analyzed: 02/27/2014 02/27/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.038	
	2	0.00	0.00	0.00	0.039	2.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Berm-58N-35E

Lab Sample ID: 1480729-18 Date(s) Analyzed: 02/26/2014 02/26/2014
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.031	
	2	0.00	0.00	0.00	0.034	10.5



370

97

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IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Berm-58N-45E

SW-846 8082A

Lab Sample ID: 14B0729-19 Date(s) Analyzed: 02/26/2014 02/26/2014
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	0.093	
	2	0.00	0.00	0.00	0.080	15.6
Aroclor-1260	1	0.00	0.00	0.00	0.25	
	2	0.00	0.00	0.00	0.25	0.8



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Bern-63N-45E***SW-846 8082A*

Lab Sample ID: 14B0729-20 Date(s) Analyzed: 02/27/2014 02/27/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	0.31	
	2	0.00	0.00	0.00	0.29	5.4
Aroclor-1260	1	0.00	0.00	0.00	4.1	
	2	0.00	0.00	0.00	4.1	1.0

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

Berm-68N-45E

Lab Sample ID: 14B0729-21 Date(s) Analyzed: 02/27/2014 02/27/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	0.35	
	2	0.00	0.00	0.00	0.33	6.5
Aroclor-1260	1	0.00	0.00	0.00	0.33	
	2	0.00	0.00	0.00	0.33	0.6



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378

100

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

Bem-63N-53E

Lab Sample ID: 14B0729-22 Date(s) Analyzed: 02/27/2014 02/27/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	0.44	
	2	0.00	0.00	0.00	0.45	3.2
Aroclor-1260	1	0.00	0.00	0.00	2.4	
	2	0.00	0.00	0.00	2.3	2.6

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Berm-5N-22E

Laboratory: Con-Test Analytical Laboratory
 Client: WSP
 Matrix: Soil
 Batch: B090939
 % Solids: 84.50
 Initial/Final: 10 g / 10 mL
 Column: 1

Work Order: 14B0729
 Project: 5140 Site - Yorkville, NY-PCB
 Analysis: SW-846 8082A
 Preparation: SW-846 3546
 Laboratory ID: B090939-MS1
 Sample Lab ID: 14B0729-01

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016	0.237	ND	0.19	80.8	40 - 140
Aroclor-1260	0.237	ND	0.19	82.2 ✓	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	REC.
Aroclor-1016	0.237	0.19	80.5	0.277	30	40 - 140
Aroclor-1260	0.237	0.20	82.5 ✓	0.282 ✓	30	40 - 140

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Berm-5N-22E

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0729
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Analysis:	SW-846 8082A
Batch:	B090939	Preparation:	SW-846 3546
% Solids:	84.50	Laboratory ID:	B090939-MS1
Initial/Final:	10 g / 10 mL	Sample Lab ID:	14B0729-01
Column:	2		

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	0.237	ND	0.20	85.5	40 - 140
Aroclor-1260 [2C]	0.237	ND	0.20	85.8	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	REC.
Aroclor-1016 [2C]	0.237	0.20	85.3	0.224	30	40 - 140
Aroclor-1260 [2C]	0.237	0.20	86.2	0.434	30	40 - 140

1 - FORM I
ANALYSIS DATA SHEET**Matrix Spike**

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090939-MS1 File ID: E0225105.D
Sampled: Prepared: 02/26/14 10:51 Analyzed: 02/26/14 23:57
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090939 Sequence: S005584 Calibration: 1400045 Instrument: ECD5
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.19	0.0073	0.024	
11096-82-5	Aroclor-1260	0.19	0.011	0.024	



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**1 - FORM I
ANALYSIS DATA SHEET****Matrix Spike**

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090939-MS1 File ID: E0225105 D
Sampled: Prepared: 02/26/14 10:51 Analyzed: 02/26/14 23:57
Solids: Preparation: SW-846 3546 Dilution:
Batch B090939 Sequence: S005584 Calibration: 1400045 Instrument: ECD5
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.20	0.0073	0.024	
11096-82-5	Aroclor-1260 [2C]	0.20	0.011	0.024	

Data Path : C:\msdchem\1\DATA\022514\
 Data File : E0225105.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Feb 2014 11:57 pm
 Operator : JMB
 Sample : B090919-MS1 Inst : ECD 5
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
 Integration File signal 2: 1260-B.E
 Quant Time: Feb 27 07:17:11 2014
 Quant Method : C:\msdchem\1\METHODS\PCS methods\5-1260-021914C.M
 Quant Title : 1260/1016 02/19/14 12/05/13
 QLast Update : Wed Feb 19 14:18:48 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) SA Tetrachlo...	2.979	3.278	2787.3E6	2656.2E6	159.879	175.751
Spiked Amount	20.000 Range	60 - 150	Recovery	=	799.39%#	878.76%#
2) SA Decachlor...	7.055	7.598	2200.0E6	1863.5E6	158.675	184.087
Spiked Amount	20.000 Range	60 - 150	Recovery		793.38%#	920.43%#
Target Compounds						
3) L1 1016{1}	3.895	4.383	145.8E6	119.5E6	171.747	182.584
4) L1 1016{2}	3.996	4.491	96052143	78026142	155.396	169.815
5) L1 1016{3}	4.045	4.576	60727679	49268661	163.740	167.483
6) L1 1016{4}	4.184	4.647	44599235	41184280	163.478	166.276
7) L1 1016{5}	4.309	4.870	70990734	64172223	153.189	168.383
Sum 1016			418.1E6	355.1E6	807.550	854.540
Average 1016					161.510	170.908
8) L7 1260{1}	5.266	5.778	145.7E6	61047812	165.172	168.010
9) L7 1260{2}	5.489	5.906	216.6E6	120.8E6	159.349	168.385
10) L7 1260{3}	5.806	6.060	140.9E6	138.3E6	172.589	171.792
11) L7 1260{4}	5.997	6.572	142.5E6	120.1E6	160.552	170.956
12) L7 1260{5}	6.218	6.720	308.7E6	245.9E6	164.835	179.169
Sum 1260			954.3E6	686.1E6	822.497	858.313
Average 1260					164.499	171.663

{f}=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

FILED BY: SSA CAGAN
 FEB 27 2014

0.414

1 - FORM I

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0729
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: B090939-MSD1 File ID: E0225106.D
 Sampled: Prepared: 02/26/14 10:51 Analyzed: 02/27/14 00:10
 Solids: Preparation: SW-846 3546 Dilution:
 Batch: B090939 Sequence: S005584 Calibration: 1400045 Instrument: ECD5
 Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.19	0.0073	0.024	
11096-82-5	Aroclor-1260	0.20	0.011	0.024	



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**1 - FORM I
ANALYSIS DATA SHEET****Matrix Spike Dup**

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090939-MSD1 File ID: E0225106.D
Sampled: Prepared: 02/26/14 10:51 Analyzed: 02/27/14 00:10
Solids: Preparation SW-846 3546 Dilution:
Batch: B090939 Sequence: S005584 Calibration: 1400045 Instrument: ECDS
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.20	0.0073	0.024	
11096-82-5	Aroclor-1260 [2C]	0.20	0.011	0.024	

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory

Work Order: 14R0729

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Preparation: SW-846 3546

Batch: B090939

Laboratory ID: B090939-RS1

Column: 1

Initial/Final: 10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	0.200	0.19	95.5	40 - 140
Aroclor-1260	0.200	0.19	97.1 ✓	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016	0.200	0.21	104	8.84	30	40 - 140
Aroclor-1260	0.200	0.21	104 ✓	7.18 ✓	30	40 - 140



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175

109

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory

Work Order: 14B0729

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Preparation: SW-846 3546

Batch: B090939

Laboratory ID: B090939-BS1

Column: 2

Initial/Final: 10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	0.200	0.19	94.0	40 - 140
Aroclor-1260 [2C]	0.200	0.20	98.5 ✓	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016 [2C]	0.200	0.21	105	11.0	30	40 - 140
Aroclor-1260 [2C]	0.200	0.21	107 ✓	8.57 ✓	30	40 - 140

1 - FORM I

ANALYSIS DATA SHEET

LCS

Laboratory: Con-Test Analytical Laboratory Work Order: 1480729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090939-BS1 File ID: F0225075.D
Sampled: Prepared: 02/26/14 10:51 Analyzed: 02/25/14 17:33
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090939 Sequence: S005584 Calibration: 1400045 Instrument: ECD5
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.19	0.031	0.10	
11096-82-5	Aroclor-1260	0.19	0.048	0.10	



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1 - FORM I
ANALYSIS DATA SHEET
LCS

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090939-BS1 File ID: E0225075.D
Sampled: Prepared: 02/26/14 10:51 Analyzed: 02/26/14 17:33
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090939 Sequence: S005584 Calibration: 1400045 Instrument: ECD5
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.19	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.20	0.048	0.10	

1 - FORM I ANALYSIS DATA SHEET

LCS Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090939-BSD1 File ID: E0225076.D
Sampled: Prepared: 02/26/14 10:51 Analyzed: 02/26/14 17:45
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090939 Sequence: S005584 Calibration: 1400045 Instrument: ECD5
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.21	0.031	0.10	
11096-82-5	Aroclor-1260	0.21	0.048	0.10	

1 - FORM I

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090939-BSD1 File ID: E0225076.D
Sampled: Prepared: 02/26/14 10:51 Analyzed: 02/26/14 17:45
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090939 Sequence: S005584 Calibration: 1400045 Instrument: ECD5
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.21	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.21	0.048	0.10	

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0729
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B090940	Laboratory ID:	B090940-BS1
Column:	1	Initial/Final:	10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	0.200	0.20	99.5	40 - 140
Aroclor-1260	0.200	0.20	99.7	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016	0.200	0.20	98.4	1.09	30	40 - 140
Aroclor-1260	0.200	0.19	97.1	2.67	30	40 - 140

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	1480729
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B090940	Laboratory ID:	B090940-BS1
Column:	2	Initial/Final:	10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	0.200	0.20	99.1	40 - 140
Aroclor-1260 [2C]	0.200	0.20	102	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016 [2C]	0.200	0.20	97.9	1.24	30	40 - 140
Aroclor-1260 [2C]	0.200	0.20	101	0.784	30	40 - 140



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1 - FORM I

ANALYSIS DATA SHEET

LCS

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0729
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: B090940-BS1 File ID: E0225077.D
 Sampled: Prepared: 02/26/14 10:52 Analyzed: 02/26/14 17:58
 Solids: Preparation: SW-846 3546 Dilution:
 Batch: B090940 Sequence: S005584 Calibration: 1400045 Instrument: ECD5
 Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.20	0.031	0.10	
11096-82-5	Aroclor-1260	0.20	0.048	0.10	



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**1 - FORM I
ANALYSIS DATA SHEET**

LCS

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090940-BS1 File ID: E0225077.D
Sampled: Prepared: 02/26/14 10:52 Analyzed: 02/26/14 17:58
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090940 Sequence: S005584 Calibration: 1400045 Instrument: ECD5
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.20	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.20	0.048	0.10	

Data Path : C:\msdchem\1\DATA\022514\
 Data File : E0225077.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 26 Feb 2014 5:58 pm
 Operator : JMB
 Sample : B090940-BS1@5X Inst : ECD 5
 Misc :
 ALS Vial : 77 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
 Integration File signal 2: 1260-B.E
 Quant Time: Feb 27 07:14:40 2014
 Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-021914C.M
 Quant Title : 1260/1016 02/19/14 12/05/13
 QLast Update : Wed Feb 19 14:18:48 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) SA Tetrachlo...	2.979	3.278	660.5E6	574.4E6	37.884	38.007
Spiked Amount	20.000	Range	60 - 150	Recovery	= 189.42%#	190.04%#
2) SA Decachlor...	7.056	7.598	524.8E6	379.1E6	37.853	37.454
Spiked Amount	20.000	Range	60 - 150	Recovery	= 189.27%#	187.27%#
Target Compounds						
3) L1 1016{1}	3.896	4.383	33499745	26585775	39.471	40.624
4) L1 1016{2}	3.997	4.492	23963937	17020981	38.770	37.044
5) L1 1016{3}	4.045	4.577	14867650	11303429	40.088	38.425
6) L1 1016{4}	4.184	4.649	11638059	11109716	42.659	41.808
7) L1 1016{5}	4.310	4.871	17599448	15380691	37.977	40.358
Sum 1016			101.6R6	81400592	198.965	198.259
Average 1016					39.793	39.652
8) L7 1260{1}	5.268	5.779	35262083	15402081	39.985	42.388
9) L7 1260{2}	5.492	5.907	50965220	29864468	37.499	41.633
10) L7 1260{3}	5.808	6.062	34301113	32811623	42.020	40.772
11) L7 1260{4}	6.000	6.574	33681242	28412275	37.950	40.454
12) L7 1260{5}	6.221	6.722	78651175	53556443	41.998	39.022
Sum 1260			232.9E6	160.0E6	199.452	204.269
Average 1260					39.890	40.854

{f}=RT Delta > 1/2 Window {#}=Amounts differ by > 25% {m}=manual int.

CHECKED BY:
 TARRISA CAGAN
 FEB 27 2014



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**1 - FORM I
ANALYSIS DATA SHEET**

LCS Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090940-BSD1 File ID: E0225078.D
Sampled: Prepared: 02/26/14 10:52 Analyzed: 02/26/14 18:11
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090940 Sequence: S005584 Calibration: 1400045 Instrument: ECDS
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.20	0.031	0.10	
11096-82-5	Aroclor-1260	0.19	0.048	0.10	



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**1 - FORM I
ANALYSIS DATA SHEET**

LCS Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 6090940-BSD1 File ID: F0225078.D
Sampled: Prepared: 02/26/14 10:52 Analyzed: 02/26/14 18.11
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090940 Sequence: S005584 Calibration: 1400045 Instrument: FCD5
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.20	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.20	0.048	0.10	

4 - FORM IV METHOD BLANK SUMMARY

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Blank ID: B090939-BLK1 Batch: B090939 Prepared: 02/26/2014 10:51

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
Berm-63N-25E	14B0729-13	E0227016.D	11:38
Berm-5N-27E	14B0729-02	E0225082.D	19:02
Berm-5N-32E	14B0729-03	E0225083.D	19:15
Berm-5N-37E	14B0729-04	E0225084.D	19:28
Berm-5N-52E	14B0729-05	E0225085.D	19:41
Berm-5N-57E	14B0729-06	E0227011.D	10:33
Berm-5N-112E	14B0729-07	E0227012.D	10:46
Berm-5N-117E	14B0729-08	E0227013.D	10:59
Berm-5N-162E	14B0729-09	E0227014.D	11:12
Berm-5N-167E	14B0729-10	E0227015.D	11:25
Berm-5N-22E	14B0729-01	E0225081.D	18:50
Berm-5N-187E	14B0729-12	E0225094.D	21:36
Matrix Spike Dup	B090939-MSD1	E0225106.D	00:10
Berm-68N-25E	14B0729-14	C0227012.d	10:39
Berm-58N-25E	14B0729-15	E0225097.D	22:15
Berm-63N-35E	14B0729-16	C0227013.d	10:51
Berm-68N-35E	14B0729-17	C0227014.d	11:05
Berm-58N-35E	14B0729-18	E0225100.D	22:53
Berm-58N-45E	14B0729-19	E0225101.D	23:06
Berm-63N-45E	14B0729-20	C0227015.d	11:17
LCS	B090939-BS1	E0225075.D	17:33
LCS Dup	B090939-BSD1	E0225076.D	17:45
Matrix Spike	B090939-MS1	E0225105.D	23:57
Berm-5N-182E	14B0729-11	E0225091.D	20:58



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381

122

1 - FORM I ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090939-BLK1 File ID: E0225073.D
Sampled: Prepared: 02/26/14 10:51 Analyzed: 02/26/14 17:07
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090939 Sequence: S005584 Calibration: 1400045 Instrument: ECD5
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0062	0.020	
11104-28-2	Aroclor-1221		0.020	0.020	
11141-16-5	Aroclor-1232		0.012	0.020	
53469-21-9	Aroclor-1242		0.010	0.020	
12672-29-6	Aroclor-1248		0.012	0.020	
11097-69-1	Aroclor-1254		0.0086	0.020	
11086-82-5	Aroclor-1260	0.011	0.0096	0.020	J
37324-23-5	Aroclor-1262		0.0082	0.020	
11100-14-4	Aroclor-1268		0.012	0.020	



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384

123

1 - FORM I ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090939-BLK1 File ID: E0225073.D
Sampled: Prepared: 02/26/14 10:51 Analyzed: 02/26/14 17:07
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090939 Sequence: S005584 Calibration: 1400045 Instrument: ECD5
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]		0.0062	0.020	
11104-28-2	Aroclor-1221 [2C]		0.020	0.020	
11141-16-5	Aroclor-1232 [2C]		0.012	0.020	
53469-21-9	Aroclor-1242 [2C]		0.010	0.020	
12672-29-6	Aroclor-1248 [2C]		0.012	0.020	
11097-69-1	Aroclor-1254 [2C]		0.0086	0.020	
11096-82-5	Aroclor-1260 [2C]	0.012	0.0096	0.020	J
37324-23-5	Aroclor-1262 [2C]		0.0082	0.020	
11100-14-4	Aroclor-1268 [2C]		0.012	0.020	



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**4 - FORM IV
METHOD BLANK SUMMARY**

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0729
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Blank ID:	B090940-BLK1	Batch:	B090940
		Prepared:	02/26/2014 10:52

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
LCS Dup	B090940-BSD1	E0225078.D	18:11
LCS	B090940-BS1	E0225077.D	17:58
Berm-63N-53E	14B0729-22	C0227017.d	11:43
Berm-68N-45E	14B0729-21	C0227016.d	11:30

1 - FORM I ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090940-BLK1 File ID: E0225074.D
Sampled: Prepared: 02/26/14 10:52 Analyzed: 02/26/14 17:20
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090940 Sequence: S005584 Calibration: 1400045 Instrument: ECD5
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0062	0.020	
11104-28-2	Aroclor-1221		0.020	0.020	
11141-16-5	Aroclor-1232		0.012	0.020	
53469-21-9	Aroclor-1242		0.010	0.020	
12672-29-6	Aroclor-1248		0.012	0.020	
11097-69-1	Aroclor-1254		0.0086	0.020	
11096-82-5	Aroclor-1260		0.0096	0.020	
37324-23-5	Aroclor-1262		0.0082	0.020	
11100-14-4	Aroclor-1268		0.012	0.020	

✓



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

**1 - FORM I
ANALYSIS DATA SHEET**

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B090940-BLK1 File ID: E0225074.D
Sampled: Prepared: 02/26/14 10:52 Analyzed: 02/26/14 17:20
Solids: Preparation: SW-846 3546 Dilution:
Batch: B090940 Sequence: S005584 Calibration: 1400045 Instrument: ECD5
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]		0.0062	0.020	
11104-28-2	Aroclor-1221 [2C]		0.020	0.020	
11141-16-5	Aroclor-1232 [2C]		0.012	0.020	
53469-21-9	Aroclor-1242 [2C]		0.010	0.020	
12672-29-6	Aroclor-1248 [2C]		0.012	0.020	
11097-69-1	Aroclor-1254 [2C]		0.0086	0.020	
11096-82-5	Aroclor-1260 [2C]		0.0096	0.020	
37324-23-5	Aroclor-1262 [2C]		0.0082	0.020	
11100-14-4	Aroclor-1268 [2C]		0.012	0.020	

PREPARATION BENCH SHEET

429

B090939

Con-Test Analytical Laboratory

Printed: 3/13/2014 10:56:20AM

Matrix: Soil

Prepared using: SV-GC - SW-846 3546

Surrogate used: 1402192

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Location	Client	Extraction Comments
14B0729-01	8082	02/26/14	10	10				Walk in door 6	WSP	Soils run undilute - Report to MDL
14B0729-02	8082	02/26/14	10	10				Walk in door 6	WSP	Soils run undilute - Report to MDL
14B0729-03	8082	02/26/14	10	10				Walk in door 6	WSP	Soils run undilute - Report to MDL
14B0729-04	8082	02/26/14	10	10				Walk in door 6	WSP	Soils run undilute - Report to MDL
14B0729-05	8082	02/26/14	10.1	10				Walk in door 6	WSP	Soils run undilute - Report to MDL
14B0729-06	8082	02/26/14	10	10				Walk in door 6	WSP	Soils run undilute - Report to MDL
14B0729-07	8082	02/26/14	10	10				Walk in door 6	WSP	Soils run undilute - Report to MDL
14B0729-08	8082	02/26/14	10.1	10				Walk in door 6	WSP	Soils run undilute - Report to MDL
14B0729-09	8082	02/26/14	10	10				Walk in door 6	WSP	Soils run undilute - Report to MDL
14B0729-10	8082	02/26/14	10	10				Walk in door 6	WSP	Soils run undilute - Report to MDL
14B0729-11	8082	02/26/14	10	10				Walk in door 6	WSP	Soils run undilute - Report to MDL
14B0729-12	8082	02/26/14	10	10				Walk in door 6	WSP	Soils run undilute - Report to MDL
14B0729-13	8082	02/26/14	10	10				Walk in door 6	WSP	Soils run undilute - Report to MDL
14B0729-14	8082	02/26/14	10	10				Walk in door 6	WSP	Soils run undilute - Report to MDL
14B0729-15	8082	02/26/14	10	10				Walk in door 6	WSP	Soils run undilute - Report to MDL
14B0729-16	8082	02/26/14	10.1	10				Walk in door 6	WSP	Soils run undilute - Report to MDL
14B0729-17	8082	02/26/14	10	10				Walk in door 6	WSP	Soils run undilute - Report to MDL
14B0729-18	8082	02/26/14	10	10				Walk in door 6	WSP	Soils run undilute - Report to MDL
14B0729-19	8082	02/26/14	10	10				Walk in door 6	WSP	Soils run undilute - Report to MDL
14B0729-20	8082	02/26/14	10	10				Walk in door 6	WSP	Soils run undilute - Report to MDL
B090939-B1.K1	QC	02/26/14	10	10						
B090939-B5.1	QC	02/26/14	10	10	1402138		1000			
B090939-B5.D1	QC	02/26/14	10	10	1402138		1000			

Spiking Witnessed By _____ Date _____ Preparation Reviewed By _____ Date _____ Extracts Received By _____ Date _____

PREPARATION BENCH SHEET

430

B090939

Con-Test Analytical Laboratory

Printed: 3/13/2014 10:56:20AM

Matrix: Soil

Prepared using: SV-GC - SW-846 3546

Surrogate used: 1402192

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Location	Client	Extraction Comments
B090939-VS1	QC	02/26/14	10	10	1402138	14B0729-01	1000			
B090939-VSD1	QC	02/26/14	10	10	1402138	14B0729-01	1000			

Spiking Witnessed By

Date

Preparation Reviewed By

Date

Extracts Received By

Date

BENCH SHEET

431

B090940

Con-Test Analytical Laboratory

Printed: 3/13/2014 10:59:52AM

Surrogate used: 1402192

Prepared using: SV-GC - SW-846 3546

Matrix: Soil

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Location	Client	Extraction Comments
14B0729-21	8082	02/26/14	10	10				Walk in door 6	WSP	Soils run undilute - Report to MDL
14B0729-22	8082	02/26/14	10	10				Walk in door 6	WSP	Soils run undilute - Report to MDL
14B0749-01	8082	02/26/14	10.4	10				Walk in door 6		
14B0749-04	8082	02/26/14	10.2	10				Walk in door 6		
14B0756-01	8082	02/26/14	10.2	10				Walk in door 1		
B090940-BLKJ	QC	02/26/14	10	10						
B090940-BSL	QC	02/26/14	10	10	1402138		1000			
B090940-RSDJ	QC	02/26/14	10	10	1402138		1000			
B090940-MSJ	QC	02/26/14	10.2	10	1402138	14B0749-04	1000			
B090940-MSIDJ	QC	02/26/14	10.2	10	1402138	14B0749-04	1000			

Spiking Witnessed By

Date

Preparation Reviewed By

Date

Extraction Received By

Date

Injection log

432

130

EID 3

C:\msdchem\1\data\022714\

Date	Filename	Lab ID	Sample Info
27 Feb 2014	8:16 am C0227001.d	ISO	
27 Feb 2014	8:29 am C0227002.d	ISO	
27 Feb 2014	8:42 am C0227003.d	ISO	
27 Feb 2014	8:55 am C0227004.d	1260/1016 100	1312045
27 Feb 2014	9:08 am C0227005.d	1254 100	1309167
27 Feb 2014	9:21 am C0227006.d	1248 100	1308296
27 Feb 2014	9:34 am C0227007.d	1242 100	1308268
27 Feb 2014	9:47 am C0227008.d	1232/1268 100	1312248
27 Feb 2014	10:00 am C0227009.d	1221/1262 100	1401037
27 Feb 2014	10:13 am C0227010.d	GLASS CHECK 2/27	
27 Feb 2014	10:26 am C0227011.d	ISO	
27 Feb 2014	10:39 am C0227012.d	14B0729-14	
27 Feb 2014	10:51 am C0227013.d	14B0729-16@200X	
27 Feb 2014	11:05 am C0227014.d	14B0729-17	
27 Feb 2014	11:17 am C0227015.d	14B0729-20@20X	
27 Feb 2014	11:30 am C0227016.d	14B0729-21@2X	
27 Feb 2014	11:43 am C0227017.d	14B0729-22@10X	
27 Feb 2014	11:56 am C0227018.d	ISO	
27 Feb 2014	12:09 pm C0227019.d	1260/1016 50	

Response Factor Report: DUAL ECD3

198

Method Path : C:\msdchem\1\methods\
 Method File : 3-1260-010714C.M
 Title : 1260/1016 01/07/14 12/05/13
 Last Update : Wed Jan 08 12:48:21 2014
 Response Via : Initial Calibration

Calibration Files

5 -C0107015.d 10 -C0107016.d 20 -C0107017.d
 50 -C0107018.d 100 -C0107019.d 200 -C0107020.d

	Compound	5	10	20	50	100	200	Avg		SRSD
1)	S TCMX - SURROGATE	1.909	1.876	1.862	1.793	1.878	1.795	1.844	E7	2.65
2)	S DCB - SURROGATE	1.435	1.416	1.379	1.326	1.415	1.393	1.393	E7	2.54
3)	L1 1016			7.704	7.197	7.715	6.740	7.206	E5	6.97
4)	L1 1016 - {2}			3.124	2.782	2.814	2.729	2.834	E5	5.88
5)	L1 1016 - {3}			9.046	8.539	8.871	8.613	8.727	E5	2.34
6)	L1 1016 - {4}			3.902	3.767	3.777	3.680	3.756	E5	2.59
7)	L1 1016 - {5}			5.204	4.747	4.738	4.492	4.727	E5	6.32
8)	L7 1260			4.943	4.555	4.600	4.319	4.542	E5	5.79
9)	L7 1260 - {2}			1.461	1.353	1.383	1.313	1.363	E6	4.56
10)	L7 1260 - {3}			9.221	8.055	8.254	7.826	8.232	E5	7.08
11)	L7 1260 - {4}			9.057	8.487	8.837	8.451	8.656	E5	3.21
12)	L7 1260 - {5}			1.812	1.758	1.834	1.802	1.804	E6	1.57

Signal #2 Calibration Files

5 -C0107015.d 10 -C0107016.d 20 -C0107017.d
 50 -C0107018.d 100 -C0107019.d 200 -C0107020.d

	Compound	5	10	20	50	100	200	Avg		SRSD
1)	S TCMX - SURROGATE	1.301	1.427	1.298	1.239	1.309	1.262	1.300	E7	4.71
2)	S DCB - SURROGATE	9.895	9.309	8.791	8.398	9.014	9.059	9.087	E6	5.07
3)	L1 1016			2.314	2.047	1.957	1.754	1.953	E5	12.72
4)	L1 1016 - {2}			6.355	5.339	5.248	4.980	5.378	E5	10.59
5)	L1 1016 - {3}			4.412	3.751	3.795	3.485	3.775	E5	10.34
6)	L1 1016 - {4}			2.820	2.432	2.392	2.220	2.408	E5	10.59
7)	L1 1016 - {5}			3.687	3.143	3.033	2.785	3.079	E5	12.27
8)	L7 1260			6.203	5.484	5.309	5.111	5.447	E5	8.24
9)	L7 1260 - {2}			7.193	6.408	6.392	5.931	6.388	E5	7.80
10)	L7 1260 - {3}			5.640	4.924	4.807	4.435	4.838	E5	10.44
11)	L7 1260 - {4}			6.020	5.347	5.269	4.879	5.273	E5	8.98
12)	L7 1260 - {5}			1.112	1.035	1.050	1.000	1.040	E6	4.35

(#) = Out of Range ### Number of calibration levels exceeded format ###

132

Data Path : C:\msdchem\1\data\010714\
 Data File : C0107019.d
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 08 Jan 2014 9:52 am
 Operator : JMB
 Sample : 1260/1016 100 Inst : DUAL ECD3
 Misc :
 ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: FRONT-1016.E
 Integration File signal 2: 1016-BACK.E
 Quant Time: Jan 08 12:48:21 2014
 Quant Method : C:\msdchem\1\methods\3-1260-010714C.M
 Quant Title : 1260/1016 01/07/14 12/05/13
 QLast Update : Wed Jan 08 12:48:21 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ng/L

System Monitoring Compounds						
1) S TCMX - SU...	3.224	3.584	1877.6E6	1309.0E6	100.946	99.460
2) S DCB - SUR...	7.294	7.962	1414.8E6	901.4E6	101.856	99.073
Target Compounds						
3) L1 1016	3.800	4.561	77153077	19572027	103.553	89.759
4) L1 1016 - (2)	3.967	4.734	26138884	52477669	95.284	89.752
5) L1 1016 - (3)	4.173	4.846	88707336	37949321	100.888	92.986
6) L1 1016 - (4)	4.328	4.935	37771169	23916042	98.501	91.074
7) L1 1016 - (5)	4.601	5.237	47380079	30329276	95.221	88.808
Sum 1016			279.2E6	164.2E6	493.448	452.379
Average 1016					98.690	90.476
8) L7 1260	5.463	6.252	46001614	53086332	96.869	90.846
9) L7 1260 - (2)	5.800	6.399	139.3E6	63915443	98.291	93.987
10) L7 1260 - (3)	6.101	6.686	82536907	48074231	95.551	91.014
11) L7 1260 - (4)	6.279	6.871	89370673	52690878	100.740	92.710
12) L7 1260 - (5)	6.485	7.009	183.4E6	105.0E6	102.721	97.762
Sum 1260			538.5E6	522.8E6	494.172	466.317
Average 1260					98.834	93.263

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

133

Method Path : C:\msdchem\1\methods\
 Method File : 3-1260-010714C.M
 Title : 1260/1C16 01/07/14 12/05/13
 Last Update : Wed Jan 08 12:48:21 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\010714\00107015.d
2	10	10	0	C:\msdchem\1\data\010714\00107016.d
3	20	20	0	C:\msdchem\1\data\010714\00107017.d
4	50	50	0	C:\msdchem\1\data\010714\00107018.d
5	100	100	0	C:\msdchem\1\data\010714\00107019.d
6	200	200	0	C:\msdchem\1\data\010714\00107020.d
7	250	250	0	C:\msdchem\1\data\010714\00107021.d

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Jan 08 12:48 2014	Jan 08 12:48 2014	08 Jan 2014 9:00 am
2	10	Jan 08 12:48 2014	Jan 08 12:48 2014	08 Jan 2014 9:13 am
3	20	Jan 08 12:48 2014	Jan 08 12:48 2014	08 Jan 2014 9:26 am
4	50	Jan 08 12:48 2014	Jan 08 12:48 2014	08 Jan 2014 9:39 am
5	100	Jan 08 12:48 2014	Jan 08 12:48 2014	08 Jan 2014 9:52 am
6	200	Jan 08 12:48 2014	Jan 08 12:48 2014	08 Jan 2014 10:05 am
7	250	Jan 08 12:48 2014	Jan 08 12:48 2014	08 Jan 2014 10:18 am

3-1260-010714C.M Wed Jan 08 12:49:24 2014

Method Path : C:\msdchem\1\methods\
 Method File : 3-1254-121913C.M
 Title : 1254 12/19/13 09/17/13
 Last Update : Thu Dec 19 14:54:48 2013
 Response Via : Initial Calibration

Calibration Files

5 =C1219011.d 10 =C1219012.d 20 =C1219013.d
 50 =C1219014.d 100 =C1219015.d 200 =C1219016.d

Compound	5	10	20	50	100	200	Avg	LRSD
1) S TCMX - SURROGATE	2.098	2.041	1.989	1.971	1.898	1.884	1.961	E7 4.59
2) S DCB - SURROGATE	1.581	1.523	1.443	1.433	1.383	1.424	1.456	E7 4.86
3) L6 1254			7.687	6.908	6.665	6.439	6.806	E5 7.94
4) L6 1254 - {2}			8.058	7.380	7.258	7.066	7.353	E5 5.73
5) L6 1254 - {3}			1.480	1.249	1.246	1.213	1.279	E6 8.95
6) L6 1254 - {4}			1.057	0.965	0.956	0.935	0.968	E6 5.39
7) L6 1254 - {5}			1.449	1.329	1.323	1.283	1.327	E6 5.66

Signal #2 Calibration Files

5 =C1219011.d 10 =C1219012.d 20 =C1219013.d
 50 =C1219014.d 100 =C1219015.d 200 =C1219016.d

Compound	5	10	20	50	100	200	Avg	LRSD
1) S TCMX - SURROGATE	1.067	0.994	0.974	1.035	1.010	1.058	1.027	E7 3.38
2) S DCB - SURROGATE	1.039	0.981	0.916	0.932	0.873	0.960	0.950	E7 5.48
3) L6 1254			4.988	4.153	3.924	3.817	4.060	E5 14.35
4) L6 1254 - {2}			4.507	3.742	3.527	3.437	3.677	E5 13.80
5) L6 1254 - {3}			7.897	6.647	6.354	6.311	6.620	E5 11.52
6) L6 1254 - {4}			3.869	3.309	3.047	2.944	3.196	E5 13.07
7) L6 1254 - {5}			7.581	6.642	6.202	6.080	6.489	E5 10.25

{#} = Out of Range ### Number of calibration levels exceeded format ###

Method Path : C:\msdchem\1\methods\
 Method File : 3-1248-121913C.M
 Title : 1248 12/19/13 08/29/13
 Last Update : Thu Dec 19 17:01:44 2013
 Response Via : Initial Calibration

Calibration Files

5 =C1219011.d 10 =C1219012.d 20 =C1219013.d
 50 =C1219014.d 100 =C1219015.d 200 =C1219016.d

Compound	5	10	20	50	100	200	Avg	CRSD
1) S TCMX - SURROGATE	2.098	2.041	1.989	1.971	1.898	1.884	1.961	E7 4.59
2) S DCB - SURROGATE	1.501	1.523	1.443	1.433	1.383	1.424	1.456	E7 4.85
3) L5 1248			4.926	4.392	4.166	4.365	4.413	E5 5.59
4) L5 1248 - {2}			7.595	6.805	6.317	6.572	6.747	E5 7.52
5) L5 1248 - {3}			4.910	4.419	4.119	4.282	4.386	E5 7.13
6) L5 1248 - {4}			8.380	7.816	7.369	7.745	7.789	E5 4.72
7) L5 1248 - {5}			7.003	6.693	6.364	6.728	6.679	E5 3.45

Signal #2 Calibration Files

5 =C1219011.d 10 =C1219012.d 20 =C1219013.d
 50 =C1219014.d 100 =C1219015.d 200 =C1219016.d

Compound	5	10	20	50	100	200	Avg	CRSD
1) S TCMX - SURROGATE	1.067	0.994	0.974	1.035	1.010	1.058	1.027	E7 3.38
2) S DCB - SURROGATE	1.039	0.981	0.916	0.932	0.873	0.960	0.950	E7 5.48
3) L5 1248			3.686	3.158	2.831	2.745	3.005	E5 14.33
4) L5 1248 - {2}			4.615	3.998	3.624	3.652	3.869	E5 11.91
5) L5 1248 - {3}			5.082	4.350	3.933	3.997	4.238	E5 12.05
6) L5 1248 - {4}			5.598	4.823	4.378	4.495	4.719	E5 11.23
7) L5 1248 - {5}			5.578	4.612	4.182	4.194	4.549	E5 13.28

{#} = Out of Range ### Number of calibration levels exceeded format ###

136

Method Path : C:\msdchem\1\methods\
 Method File : 3-1248-121913C.M
 Title : 1248 12/19/13 08/29/13
 Last Update : Thu Dec 19 17:01:44 2013
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\121913\C1219011.d
2	10	10	0	C:\msdchem\1\data\121913\C1219012.d
3	20	20	0	C:\msdchem\1\data\121913\C1219013.d
4	50	50	0	C:\msdchem\1\data\121913\C1219014.d
5	100	100	0	C:\msdchem\1\data\121913\C1219015.d
6	200	200	0	C:\msdchem\1\data\121913\C1219016.d
7	250	250	0	C:\msdchem\1\data\121913\C1219017.d

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Dec 19 17:01 2013	Dec 19 14:54 2013	19 Dec 2013 9:55 am
2	10	Dec 19 17:01 2013	Dec 19 14:54 2013	19 Dec 2013 10:08 am
3	20	Dec 19 17:01 2013	Dec 19 14:54 2013	19 Dec 2013 10:21 am
4	50	Dec 19 17:01 2013	Dec 19 14:54 2013	19 Dec 2013 10:33 am
5	100	Dec 19 17:01 2013	Dec 19 14:54 2013	19 Dec 2013 10:46 am
6	200	Dec 19 17:01 2013	Dec 19 14:54 2013	19 Dec 2013 10:59 am
7	250	Dec 19 17:01 2013	Dec 19 14:54 2013	19 Dec 2013 11:12 am

3-1248 121913C.M Thu Dec 19 17:01:53 2013

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0729
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD3	Calibration:	1400032
Lab File ID:	C0227004.d	Calibration Date:	12/19/13 00:00
Sequence:	S005583	Injection Date:	02/27/14
Lab Sample ID:	S005583-CCV1	Injection Time:	08:55

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	108				7.8	15
Aroclor-1016 [2C]	A	100	101				1.2	15
Aroclor-1260	A	100	110				9.6	15
Aroclor-1260 [2C]	A	100	108				8.2	15
Decachlorobiphenyl	A	100	102	1.392574E+07	1.426E+07		2.4	
Decachlorobiphenyl [2C]	A	100	104	9086313	9425000		3.7	
Tetrachloro-m-xylene	A	100	108	1.843653E+07	1.9948E+07		8.2	
Tetrachloro-m-xylene [2C]	A	100	95.7	1.30018E+07	1.2442E+07		-4.3	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0729
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD3	Calibration:	1400032
Lab File ID:	C0227006.d	Calibration Date:	12/19/13 00:00
Sequence:	S005583	Injection Date:	02/27/14
Lab Sample ID:	S005583-CCV2	Injection Time:	09:21

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1248	A	100	99.7				-0.3	15
Aroclor-1248 [2C]	A	100	99.5				-0.5	15
Decachlorobiphenyl	A	100	114	1.392574E+07	1.5937E+07		14.4	
Decachlorobiphenyl [2C]	A	100	117	9086313	1.0629E+07		17.0	✓
Tetrachloro-m-xylene	A	100	122	1.843653E+07	2.2477E+07		21.9	
Tetrachloro-m-xylene [2C]	A	100	109	1.30018E+07	1.4116E+07		8.6	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0729
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD3	Calibration:	1400032
Lab File ID:	C0227019.d	Calibration Date:	12/19/13 00:00
Sequence:	S005583	Injection Date:	02/27/14
Lab Sample ID:	S005583-CCV3	Injection Time:	12:09

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	50.0	58.8				17.6	15
Aroclor-1016 [2C]	A	50.0	54.5				9.0	15
Aroclor-1260	A	50.0	58.1				16.2	15
Aroclor-1260 [2C]	A	50.0	59.7				19.4	15
Decachlorobiphenyl	A	50.0	54.4	1.392574E+07	1.5146E+07		8.8	
Decachlorobiphenyl [2C]	A	50.0	54.9	9088313	9982000		9.8	
Tetrachloro-m-xylene	A	50.0	56.4	1.843653E+07	2.08E+07		12.8	
Tetrachloro-m-xylene [2C]	A	50.0	49.4	1.30018E+07	1.2848E+07		-1.2	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Sample file #5 12 thru 17

AFG 50% D for
closing CCV

140

Data Path : C:\msdchem\1\data\022714\
 Data File : C0227019.d
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 27 Feb 2014 12:09 pm
 Operator : JMB
 Sample : 1260/1016 50 Inst : DUAL ECD3
 Misc :
 ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: FRONT-1016.E
 Integration File signal 2: 1016-BACK.E
 Quant Time: Feb 27 12:29:44 2014
 Quant Method : C:\msdchem\1\methods\3-1260-021914.M
 Quant Title : 1260/1016 01/07/14 12/05/13
 QLast Update : Wed Jan 08 12:48:21 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S TCMX - SU...	3.142	3.504	1040.0E6	642.4E6	56.407	49.413
2) S DCB - SUR...	7.223	7.875	757.3E6	499.1E6	54.384	54.923
Target Compounds						
3) L1 1016	3.715	4.474	47833756	11273764	66.362	57.729
4) L1 1016 - {2}	3.881	4.647	17035606	33665094	60.103	62.594
5) L1 1016 - {3}	4.087	4.759	46899058	19902399	53.738	52.727
6) L1 1016 - {4}	4.240	4.847	22479354	11269063	59.847	46.804
7) L1 1016 - {5}	4.511	5.147	25466934	16221272	53.871	52.676
Sum 1016			159.7E6	92331592	293.941	272.530
Average 1016					58.788	54.506
8) L7 1260	5.370	6.173	26655175	32208698	58.689	59.130
9) L7 1260 - {2}	5.710	6.316	70737301	57985035	51.882	59.467
10) L7 1260 - {3}	6.018	6.616	48015181	28859703	58.328	59.653
11) L7 1260 - {4}	6.199	6.804	47774017	30511472	55.192	57.860
12) L7 1260 - {5}	6.412	6.945	119.9E6	64951116	66.477	62.425
Sum 1260			313.1E6	194.5E6	290.567	298.536
Average 1260					58.113	59.707

(f)-RT Delta > 1/2 Window (*)--Amounts differ by > 25% (m)=manual int.

CHECKED BY: FEB 27 2014
 PETER GRYSZKIEWICZ

ECDS

141

433

Analysis Log

Date	Filename	Lab ID	Sample Info
25 Feb 2014	8:45 am E0225001.D	ISO	
25 Feb 2014	8:57 am E0225002.D	ISO	
25 Feb 2014	9:10 am E0225003.D	ISO	
25 Feb 2014	9:23 am E0225004.D	1260/1016 100	1312045
25 Feb 2014	9:36 am E0225005.D	1254 100	1309167
25 Feb 2014	9:49 am E0225006.D	1248 100	1308296
25 Feb 2014	10:01 am E0225007.D	1242 100	1308268
25 Feb 2014	10:14 am E0225008.D	1232/1268 100	1312248
25 Feb 2014	10:27 am E0225009.D	1221/1262 100	1401037
25 Feb 2014	10:40 am E0225010.D	ISO	
25 Feb 2014	1:02 pm E0225011.D	ISO	
25 Feb 2014	1:15 pm E0225012.D	B090680-BLK1@TBA	
25 Feb 2014	1:28 pm E0225013.D	B090677-BLK1@TBA	
25 Feb 2014	1:40 pm E0225014.D	B090677-BS1@5X TBA	
25 Feb 2014	1:53 pm E0225015.D	B090677-BS1@5X TBA	
25 Feb 2014	2:06 pm E0225016.D	B090680-BS1@5X TBA	
25 Feb 2014	2:19 pm E0225017.D	B090680-BS1@5X TBA	
25 Feb 2014	2:32 pm E0225018.D	ISO	
25 Feb 2014	2:45 pm E0225019.D	1260/1016 50	
25 Feb 2014	2:57 pm E0225020.D	14B0540-21@5X TBA	
25 Feb 2014	3:10 pm E0225021.D	14B0540-22@5X TBA	
25 Feb 2014	3:23 pm E0225022.D	14B0540-23@5X TBA	
25 Feb 2014	3:36 pm E0225023.D	14B0540-24@5X TBA	
25 Feb 2014	3:49 pm E0225024.D	14B0540-25@5X TBA	
25 Feb 2014	4:02 pm E0225025.D	14B0540-26@5X TBA	
25 Feb 2014	4:14 pm E0225026.D	14B0540-27@5X TBA	
25 Feb 2014	4:27 pm E0225027.D	14B0540-28@5X TBA	
25 Feb 2014	4:40 pm E0225028.D	14B0540-29@5X TBA	
25 Feb 2014	4:53 pm E0225029.D	14B0540-30@5X TBA	
25 Feb 2014	5:06 pm E0225030.D	ISO	
25 Feb 2014	5:19 pm E0225031.D	1260/1016 100	
25 Feb 2014	5:31 pm E0225032.D	14B0540-31@5X TBA	
25 Feb 2014	5:44 pm E0225033.D	14B0540-32@5X TBA	
25 Feb 2014	5:57 pm E0225034.D	14B0540-33@5X TBA	
25 Feb 2014	6:10 pm E0225035.D	14B0540-34@5X TBA	
25 Feb 2014	6:23 pm E0225036.D	14B0540-35@5X TBA	
25 Feb 2014	6:36 pm E0225037.D	B090680-MS1@5X TBA	
25 Feb 2014	6:48 pm E0225038.D	B090680-MSD1@5X TBA	
25 Feb 2014	7:01 pm E0225039.D	ISO	
25 Feb 2014	7:14 pm E0225040.D	1260/1016 50	
25 Feb 2014	7:27 pm E0225041.D	14B0540-01@5X TBA	
25 Feb 2014	7:40 pm E0225042.D	14B0540-02@100X TBA	
25 Feb 2014	7:52 pm E0225043.D	14B0540-03@5X TBA	
25 Feb 2014	8:05 pm E0225044.D	14B0540-04@5X TBA	
25 Feb 2014	8:18 pm E0225045.D	14B0540-05@5X TBA	
25 Feb 2014	8:31 pm E0225046.D	14B0540-06@4000X TBA	
25 Feb 2014	8:44 pm E0225047.D	14B0540-07@2000X TBA	
25 Feb 2014	8:57 pm E0225048.D	14B0540-08@500X TBA	
25 Feb 2014	9:09 pm E0225049.D	14B0540-09@2000X TBA	
25 Feb 2014	9:22 pm E0225050.D	14B0540-10@5X TBA	
25 Feb 2014	9:35 pm E0225051.D	ISO	
25 Feb 2014	9:48 pm E0225052.D	1260/1016 100	
25 Feb 2014	10:01 pm E0225053.D	14B0540-11@100X TBA	
25 Feb 2014	10:14 pm E0225054.D	14B0540-12@5X TBA	
25 Feb 2014	10:26 pm E0225055.D	14B0540-13@5X TBA	
25 Feb 2014	10:39 pm E0225056.D	14B0540-14@5X TBA	
25 Feb 2014	10:52 pm E0225057.D	14B0540-15@5X TBA	
25 Feb 2014	11:05 pm E0225058.D	14B0540-16@100X TBA	
25 Feb 2014	11:18 pm E0225059.D	14B0540-17@100X TBA	
25 Feb 2014	11:31 pm E0225060.D	14B0540-18@100X TBA	
25 Feb 2014	11:43 pm E0225061.D	14B0540-19@5X TBA	
25 Feb 2014	11:56 pm E0225062.D	14B0540-20@20X TBA	
26 Feb 2014	12:09 am E0225063.D	B090677-MS1@5X TBA	
26 Feb 2014	12:22 am E0225064.D	B090677-MSD1@5X TBA	
26 Feb 2014	12:35 am E0225065.D	ISO	

Analysis Log

Date	Filename	Lab ID	Sample Info
26 Feb 2014	12:47 am	E0225066.D	1260/1016 50
26 Feb 2014	8:08 am	E0225067.D	ISO
26 Feb 2014	8:21 am	E0225068.D	ISO
26 Feb 2014	8:34 am	E0225069.D	1260/1016 100 ✓
26 Feb 2014	8:50 am	E0225070.D	ISO
26 Feb 2014	9:03 am	E0225071.D	B090907-BLK1@TO-10 TBA
26 Feb 2014	4:54 pm	E0225072.D	ISO
26 Feb 2014	5:07 pm	E0225073.D	B090939-BLK1
26 Feb 2014	5:20 pm	E0225074.D	B090940-BLK1
26 Feb 2014	5:33 pm	E0225075.D	B090939-BSD1@5X
26 Feb 2014	5:45 pm	E0225076.D	B090939-BSD1@5X
26 Feb 2014	5:58 pm	E0225077.D	B090940-BSD1@5X
26 Feb 2014	6:11 pm	E0225078.D	B090940-BSD1@5X
26 Feb 2014	6:24 pm	E0225079.D	ISO
26 Feb 2014	6:37 pm	E0225080.D	1260/1016 50 ✓
26 Feb 2014	6:50 pm	E0225081.D	14B0729-01
26 Feb 2014	7:02 pm	E0225082.D	14B0729-02
26 Feb 2014	7:15 pm	E0225083.D	14B0729-03
26 Feb 2014	7:28 pm	E0225084.D	14B0729-04
26 Feb 2014	7:41 pm	E0225085.D	14B0729-05
26 Feb 2014	7:54 pm	E0225086.D	14B0729-06
26 Feb 2014	8:07 pm	E0225087.D	14B0729-07
26 Feb 2014	8:19 pm	E0225088.D	14B0729-08
26 Feb 2014	8:32 pm	E0225089.D	14B0729-09
26 Feb 2014	8:45 pm	E0225090.D	14B0729-10
26 Feb 2014	8:58 pm	E0225091.D	14B0729-11
26 Feb 2014	9:11 pm	E0225092.D	ISO
26 Feb 2014	9:23 pm	E0225093.D	1260/1016 100 ✓
26 Feb 2014	9:36 pm	E0225094.D	14B0729-12
26 Feb 2014	9:49 pm	E0225095.D	14B0729-13
26 Feb 2014	10:02 pm	E0225096.D	14B0729-14
26 Feb 2014	10:15 pm	E0225097.D	14B0729-15
26 Feb 2014	10:28 pm	E0225098.D	14B0729-16
26 Feb 2014	10:40 pm	E0225099.D	14B0729-17
26 Feb 2014	10:53 pm	E0225100.D	14B0729-18
26 Feb 2014	11:06 pm	E0225101.D	14B0729-19
26 Feb 2014	11:19 pm	E0225102.D	14B0729-20
26 Feb 2014	11:32 pm	E0225103.D	14B0729-21
26 Feb 2014	11:45 pm	E0225104.D	14B0729-22
26 Feb 2014	11:57 pm	E0225105.D	B090939-MS1
27 Feb 2014	12:10 am	E0225106.D	B090939-MSD1
27 Feb 2014	12:23 am	E0225107.D	ISO
27 Feb 2014	12:36 am	E0225108.D	1260/1016 50 ✓

1260
1016 out 1 column

Analysis Log

Date	Filename	Lab ID	Sample Info
27 Feb 2014	8:25 am E0227001.D	ISO	
27 Feb 2014	8:38 am E0227002.D	ISO	
27 Feb 2014	8:51 am E0227003.D	ISO	
27 Feb 2014	9:04 am E0227004.D	1260/1016 100 ✓	1312345
27 Feb 2014	9:16 am E0227005.D	1254 100	1309167
27 Feb 2014	9:29 am E0227006.D	1248 100 ✓	1308296
27 Feb 2014	9:42 am E0227007.D	1242 100	1308268
27 Feb 2014	9:55 am E0227008.D	1232/1268 100	1312248
27 Feb 2014	10:08 am E0227009.D	1221/1262 100	1401037
27 Feb 2014	10:21 am E0227010.D	ISO	
27 Feb 2014	10:33 am E0227011.D	14B0729-06@2X	
27 Feb 2014	10:46 am E0227012.D	14B0729-07@5X	
27 Feb 2014	10:59 am E0227013.D	14B0729-08@5X	
27 Feb 2014	11:12 am E0227014.D	14B0729-09@10X	
27 Feb 2014	11:25 am E0227015.D	14B0729-10@5X	
27 Feb 2014	11:38 am E0227016.D	14B0729-13@50X	
27 Feb 2014	11:51 am E0227017.D	ISO	
27 Feb 2014	12:03 pm E0227018.D	1260/1016 50 ✓	
27 Feb 2014	1:02 pm E0227019.D	ISO	
27 Feb 2014	1:14 pm E0227020.D	B090928-BLK1@P/S	
27 Feb 2014	1:27 pm E0227021.D	B090928-B51@P/S	
27 Feb 2014	1:40 pm E0227022.D	B090928-BSD1@P/S	
27 Feb 2014	1:53 pm E0227023.D	14B0513-07RB1	
27 Feb 2014	2:06 pm E0227024.D	ISO	
27 Feb 2014	2:24 pm E0227025.D	1260/1016 100	

144

Method Path : C:\msdchem\1\METHODS\PCB methods\
 Method File : S-1260-021914C.M
 Title : 1260/1016 02/19/14 12/05/13
 Last Update : Wed Feb 19 14:18:48 2014
 Response Via : Initial Calibration

Calibration Files

=0005.D = 5 =E0219014.D
 10 =E0219015.D 20 =E0219016.D 50 =E0219017.D

	Compound		5	10	20	50	Avg		%RSD
1)	SA	Tetrachloro-m...	1.880	1.822	1.810	1.718	1.720	1.642	1.743 E7 5.64
2)	SA	Decachlorobip...	1.520	1.472	1.414	1.334	1.366	1.321	1.386 E7 6.26
3)	L1	1016{1}			9.069	8.360	8.533	8.323	8.487 E5 4.15
4)	L1	1016{2}			7.019	6.231	6.094	5.862	6.181 E5 8.27
5)	L1	1016{3}			4.108	3.688	3.666	3.587	3.709 E5 6.35
6)	L1	1016{4}			3.306	2.766	2.664	2.492	2.728 E5 12.90
7)	L1	1016{5}			5.260	4.679	4.594	4.388	4.634 E5 8.39
8)	L7	1260{1}			9.779	8.699	8.957	8.486	8.819 E5 6.90
9)	L7	1260{2}			1.507	1.361	1.366	1.312	1.359 E6 6.98
10)	L7	1260{3}			9.329	8.086	8.129	7.864	8.163 E5 8.72
11)	L7	1260{4}			9.686	8.907	8.942	8.651	8.875 E5 6.13
12)	L7	1260{5}			1.935	1.836	1.935	1.865	1.873 E6 3.33

Signal #2 Calibration Files

=0005.D = 5 =E0219014.D
 10 =E0219015.D 20 =E0219016.D 50 =E0219017.D

	Compound		5	10	20	50	Avg		%RSD
1)	SA	Tetrachloro-m...	1.577	1.530	1.501	1.457	1.500	1.509	1.511 E7 2.41
2)	SA	Decachlorobip...	1.123	1.042	0.981	0.935	0.984	1.007	1.012 E7 5.85
3)	L1	1016{1}			7.453	6.529	6.387	6.258	6.544 E5 8.13
4)	L1	1016{2}			5.244	4.717	4.541	4.282	4.595 E5 9.11
5)	L1	1016{3}			3.360	3.006	2.906	2.744	2.942 E5 9.02
6)	L1	1016{4}			3.143	2.756	2.618	2.415	2.657 E5 11.88
7)	L1	1016{5}			4.478	3.935	3.737	3.491	3.811 E5 11.17
8)	L7	1260{1}			4.323	3.749	3.576	3.313	3.634 E5 12.13
9)	L7	1260{2}			8.412	7.258	7.069	6.640	7.173 E5 10.59
10)	L7	1260{3}			9.425	8.153	7.877	7.448	8.048 E5 10.40
11)	L7	1260{4}			8.308	7.166	6.871	6.454	7.023 E5 11.30
12)	L7	1260{5}			1.544	1.365	1.348	1.308	1.372 E6 7.29

(#) = Out of Range ### Number of calibration levels exceeded format ###

145

Method Path : C:\msdchem\1\METHODS\PCB methods\
 Method File : 5-1260-021914C.M
 Title : 1260/1016 02/19/14 12/05/13
 Last Update : Wed Feb 19 14:18:48 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
3	5	-1	0	C:\msdchem\1\DATA\021914\E0219014.D
4	10	-1	0	C:\msdchem\1\DATA\021914\E0219015.D
5	20	20	0	C:\msdchem\1\DATA\021914\E0219016.D
6	50	50	0	C:\msdchem\1\DATA\021914\E0219017.D
7	100	100	0	C:\msdchem\1\DATA\021914\E0219018.D

#	ID	Update Time	Quant Time	Acquisition Time
3	5	Feb 19 14:18 2014	Feb 19 14:18 2014	19 Feb 2014 11:31 am
4	10	Feb 19 14:18 2014	Feb 19 14:18 2014	19 Feb 2014 11:44 am
5	20	Feb 19 14:18 2014	Feb 19 14:18 2014	19 Feb 2014 11:57 am
6	50	Feb 19 14:18 2014	Feb 19 14:18 2014	19 Feb 2014 12:10 pm
7	100	Feb 19 14:18 2014	Feb 19 14:18 2014	19 Feb 2014 12:23 pm

5-1260-021914C.M Wed Feb 19 14:22:38 2014

Data Path : C:\msdchem\1\DATA\021914\
 Data File : E0219017.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2014 12:10 pm
 Operator : JMB
 Sample : 1260/1016 50 Inst : ECD 5
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
 Integration File signal 2: 1260-B.E
 Quant Time: Feb 19 14:18:47 2014
 Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-021914C.M
 Quant Title : 1260/1016 02/19/14 12/05/13
 QLast Update : Wed Feb 19 14:18:46 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) SA Tetrachlo...	2.978	3.281	859.2E6	728.3E6	46.767	47.410
Spiked Amount	20.000 Range	60 - 150	Recovery	=	233.84%#	237.05%#
2) SA Decachlor...	7.053	7.601	667.0E6	467.3E6	43.415	44.559
Spiked Amount	20.000 Range	60 - 150	Recovery	=	227.08%#	222.79%#
Target Compounds						
3) L1 1016{1}	3.895	4.387	41801191	32645179	46.094	43.804
4) L1 1016{2}	3.996	4.495	31154107	23587284	44.383	44.983
5) L1 1016{3}	4.044	4.581	18440572	15031472	44.893	44.738
6) L1 1016{4}	4.184	4.652	13830220	13780763	41.829	43.839
7) L1 1016{5}	4.309	4.875	23394669	19676012	44.473	43.941
Sum 1016			128.6E6	104.7E6	221.673	221.396
Average 1016					44.335	44.261
8) L7 1260{1}	5.264	5.782	43492799	18742508	44.477	43.353
9) L7 1260{2}	5.484	5.910	66039562	36287032	45.157	43.137
10) L7 1260{3}	5.802	6.064	40430935	40763727	43.339	43.251
11) L7 1260{4}	5.992	6.576	44537456	35831765	45.980	43.128
12) L7 1260{5}	6.213	6.723	91810763	68249766	47.449	44.195
Sum 1260			288.3E6	199.9E6	226.401	217.064
Average 1260					45.280	43.413

{f}=RT Delta > 1/2 Window (#)=Amounts differ by > 25% {m}=manual int.

Method Path : C:\msdchem\1\METHODS\PCB methods\
 Method File : 5-1248-021114C.M
 Title : 1248 02/11/14 08/29/13
 Last Update : Wed Feb 12 09:29:50 2014
 Response Via : Initial Calibration

Calibration Files

=0005.D 5 =E0211017.D 10 =E0211018.D
 20 =E0211011.D 50 =E0211012.D 100 =E0211013.D

	Compound		5	10	20	50	100	Avg		%RSD
1)	SA	Tetrachloro-m...	1.669	1.657	1.504	1.428	1.469	1.388	1.496	E7 6.26
2)	SA	Decachlorobip...	1.240	1.192	1.167	1.106	1.151	1.130	1.147	E7 5.49
3)	L5	1248{1}			4.070	3.576	3.512	3.729	3.733	E5 5.94
4)	L5	1248{2}			4.295	4.022	3.810	3.947	3.982	E5 4.89
5)	L5	1248{3}			5.847	5.259	5.077	5.361	5.348	E5 5.56
6)	L5	1248{4}			6.770	5.913	5.805	6.199	6.136	E5 6.23
7)	L5	1248{5}			5.978	5.133	5.097	5.395	5.365	E5 6.73

Signal #2 Calibration Files

=0005.D 5 =E0211017.D 10 =E0211018.D
 20 =E0211011.D 50 =E0211012.D 100 =E0211013.D

	Compound		5	10	20	50	100	Avg		%RSD
1)	SA	Tetrachloro-m...	1.529	1.480	1.413	1.367	1.447	1.443	1.442	E7 3.62
2)	SA	Decachlorobip...	1.113	1.042	0.963	0.921	0.988	1.019	1.005	E7 6.11
3)	L5	1248{1}			3.998	3.321	3.086	3.114	3.302	E5 12.32
4)	L5	1248{2}			4.721	3.948	3.656	3.672	3.902	E5 12.39
5)	L5	1248{3}			6.004	5.032	4.703	4.762	5.018	E5 11.45
6)	L5	1248{4}			6.597	5.552	5.220	5.242	5.532	E5 11.26
7)	L5	1248{5}			7.317	6.188	5.867	5.930	6.205	E5 10.38

{#} = Out of Range ### Number of calibration levels exceeded format ###

Method Path : C:\msdchem\1\METHODS\PCB methods\
Method File : 5-1248-021114C.M
Title : 1248 02/11/14 08/29/13
Last Update : Wed Feb 12 09:29:50 2014
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
2	5	5	0	C:\msdchem\1\DATA\021114\E0211017.D
3	10	10	0	C:\msdchem\1\DATA\021114\E0211018.D
4	20	20	0	C:\msdchem\1\DATA\021114\E0211011.D
5	50	50	0	C:\msdchem\1\DATA\021114\E0211012.D
6	100	100	0	C:\msdchem\1\DATA\021114\E0211013.D
7	200	200	0	C:\msdchem\1\DATA\021114\E0211014.D

#	ID	Update Time	Quant Time	Acquisition Time
2	5	Feb 12 09:29 2014	Feb 12 09:06 2014	11 Feb 2014 2:59 pm
3	10	Feb 12 09:29 2014	Feb 12 09:06 2014	11 Feb 2014 3:12 pm
4	20	Feb 12 09:29 2014	Feb 12 09:06 2014	11 Feb 2014 1:41 pm
5	50	Feb 12 09:29 2014	Feb 12 09:06 2014	11 Feb 2014 1:54 pm
6	100	Feb 12 09:29 2014	Feb 12 09:06 2014	11 Feb 2014 2:07 pm
7	200	Feb 12 09:29 2014	Feb 12 09:06 2014	11 Feb 2014 2:20 pm

5-1248-021114C.M Wed Feb 12 09:30:13 2014



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7 - FORM VII
CONTINUING CALIBRATION VERIFICATION
SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0729
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD5	Calibration:	1400045
Lab File ID:	E0225004.D	Calibration Date:	02/11/14 00:00
Sequence:	S005584	Injection Date:	02/25/14
Lab Sample ID:	S005584-CCV1	Injection Time:	09:23

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	96.3				-3.7	15
Aroclor-1016 [2C]	A	100	101				1.1	15
Aroclor-1260	A	100	96.1				-3.9	15
Aroclor-1260 [2C]	A	100	100				0.4	15
Decachlorobiphenyl	A	100	86.0	1.38653E+07	1.192E+07		-14.0	
Decachlorobiphenyl [2C]	A	100	102	1.012239E+07	1.0326E+07		2.0	
Tetrachloro-m-xylene	A	100	96.6	1.74331E+07	1.6848E+07		-3.4	
Tetrachloro-m-xylene [2C]	A	100	102	1.511388E+07	1.5419E+07		2.0	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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328

150

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0729
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD5	Calibration:	1400045
Lab File ID:	E0225006.D	Calibration Date:	02/11/14 00:00
Sequence:	S005584	Injection Date:	02/25/14
Lab Sample ID:	S005584-CCV2	Injection Time:	09:49

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1248	A	100	111				10.6	15
Aroclor-1248 [2C]	A	100	100				-0.05	15
Decachlorobiphenyl	A	100	91.5	1.38653E+07	1.2684E+07		-8.5	
Decachlorobiphenyl [2C]	A	100	110	1.012239E+07	1.1135E+07		10.0	
Tetrachloro-m-xylene	A	100	107	1.74331E+07	1.865E+07		7.0	
Tetrachloro-m-xylene [2C]	A	100	115	1.511388E+07	1.7308E+07		14.5	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0729
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD5	Calibration:	1400045
Lab File ID:	E0225069.D	Calibration Date:	02/11/14 00:00
Sequence:	S005584	Injection Date:	02/26/14
Lab Sample ID:	S005584-CCV3	Injection Time:	08:34

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	95.7				-4.3	15
Aroclor-1016 [2C]	A	100	99.2				-0.8	15
Aroclor-1260	A	100	95.4				-4.6	15
Aroclor-1260 [2C]	A	100	98.0				-2.0	15
Decachlorobiphenyl	A	100	90.8	1.38653E+07	1.2588E+07		-9.2	
Decachlorobiphenyl [2C]	A	100	97.9	1.012239E+07	9912000		-2.1	
Tetrachloro-m-xylene	A	100	96.2	1.74331E+07	1.6773E+07		-3.8	
Tetrachloro-m-xylene [2C]	A	100	101	1.511388E+07	1.5328E+07		1.4	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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334

152

7 - FORM VII
CONTINUING CALIBRATION VERIFICATION
SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0729
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD5	Calibration:	1400045
Lab File ID:	E0225080.D	Calibration Date:	02/11/14 00:00
Sequence:	S005584	Injection Date:	02/26/14
Lab Sample ID:	S005584-CCV4	Injection Time:	18:37

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	50.0	52.8				5.5	15
Aroclor-1016 [2C]	A	50.0	52.6				5.2	15
Aroclor-1260	A	50.0	55.2				10.4	15
Aroclor-1260 [2C]	A	50.0	54.6				9.3	15
Decachlorobiphenyl	A	50.0	48.4	1.38653E+07	1.341E+07		-3.3	✓
Decachlorobiphenyl [2C]	A	50.0	49.1	1.012239E+07	9946000		-1.8	
Tetrachloro-m-xylene	A	50.0	51.4	1.74331E+07	1.7812E+07		2.7	
Tetrachloro-m-xylene [2C]	A	50.0	52.1	1.511388E+07	1.575E+07		4.2	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0729
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD5	Calibration:	1400045
Lab File ID:	E0225093.D	Calibration Date:	02/11/14 00:00
Sequence:	S005584	Injection Date:	02/26/14
Lab Sample ID:	S005584-CCV5	Injection Time:	21:23

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	102				2.3	15
Aroclor-1016 [2C]	A	100	106				6.3	15
Aroclor-1260	A	100	103				2.5	15
Aroclor-1260 [2C]	A	100	106				5.9	15
Decachlorobiphenyl	A	100	95.6	1.38653E+07	1.3253E+07		-4.4	✓
Decachlorobiphenyl [2C]	A	100	105	1.012239E+07	1.0642E+07		5.1	
Tetrachloro-m-xylene	A	100	101	1.74331E+07	1.7545E+07		0.6	
Tetrachloro-m-xylene [2C]	A	100	107	1.511388E+07	1.6109E+07		6.6	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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340

154

7 - FORM VII
CONTINUING CALIBRATION VERIFICATION
SW-846 8082A

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Instrument ID: ECD5 Calibration: 1400045
Lab File ID: E0225108.D Calibration Date: 02/11/14 00:00
Sequence: S005584 Injection Date: 02/27/14
Lab Sample ID: S005584-CCV6 Injection Time: 00:36

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	50.0	53.3				6.6	15
Aroclor-1016 [2C]	A	50.0	57.6				15.3	15
Aroclor-1260	A	50.0	54.8				9.6	15
Aroclor-1260 [2C]	A	50.0	58.8				17.7	15
Decachlorobiphenyl	A	50.0	49.1	1.38653E+07	1.3608F+07		-1.8	
Decachlorobiphenyl [2C]	A	50.0	53.1	1.012239F+07	1.0754E+07		6.2	
Tetrachloro-m-xylene	A	50.0	51.9	1.74331E+07	1.8086E+07		3.7	
Tetrachloro-m-xylene [2C]	A	50.0	54.0	1.511388E+07	1.6324E+07		8.0	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

NFG allows 50% for closing CCV
No quals

155

Data Path : C:\msdchem\1\DATA\022514\
 Data File : E0225108.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Feb 2014 12:36 am
 Operator : JMB
 Sample : 1260/1016 50 Inst : ECD 5
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
 Integration File signal 2: 1260-B.E
 Quant Time: Feb 27 08:43:09 2014
 Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-021914.M
 Quant Title : 1260/1016 02/19/14 12/05/13
 QLast Update : Wed Feb 19 14:18:48 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) SA Tetrachlo...	2.979	3.278	904.3E6	816.2E6	51.868	54.005
Spiked Amount	20.000 Range	60 - 150	Recovery	=	259.34%#	270.02%#
2) SA Decachlor...	7.056	7.599	680.4E6	537.7E6	49.076	53.115
Spiked Amount	20.000 Range	60 - 150	Recovery	=	245.38%#	265.53%#
Target Compounds						
3) L1 1016{1}	3.895	4.383	43658956	41965781	51.442	64.125
4) L1 1016{2}	3.996	4.492	30695137	26314533	49.660	57.270
5) L1 1016{3}	4.045	4.577	20624186	15699540	55.609	53.369
6) L1 1016{4}	4.184	4.648	16704168	15421514	61.229	58.035
7) L1 1016{5}	4.309	4.871	22524073	21131069	48.604	55.446
Sum 1016			134.2E6	120.5E6	266.543	288.245
Average 1016					53.309	57.649
8) L7 1260{1}	5.268	5.778	46779031	22607789	53.044	62.219
9) L7 1260{2}	5.495	5.907	83817803	42057482	61.672	58.630
10) L7 1260{3}	5.810	6.062	43244305	47081576	52.976	58.504
11) L7 1260{4}	6.002	6.575	44494704	40081341	50.134	57.069
12) L7 1260{5}	6.224	6.723	105.4E6	79261260	56.281	57.751
Sum 1260			323.7E6	231.1E6	274.107	294.174
Average 1260					54.821	58.835

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

↑
 OK 257.
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343

156

7 - FORM VII
CONTINUING CALIBRATION VERIFICATION
SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0729
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD5	Calibration:	1400045
Lab File ID:	E0227004.D	Calibration Date:	02/11/14 00:00
Sequence:	S005585	Injection Date:	02/27/14
Lab Sample ID:	S005585-CCV1	Injection Time:	09:04

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	96.5				-3.5	15
Aroclor-1016 [2C]	A	100	101				1.2	15
Aroclor-1260	A	100	100				0.2	15
Aroclor-1260 [2C]	A	100	102				2.4	15
Decachlorobiphenyl	A	100	92.2	1.38653E+07	1.2787E+07		-7.8	15
Decachlorobiphenyl [2C]	A	100	100	1.012239E+07	1.0148E+07		0.2	15
Tetrachloro-m-xylene	A	100	97.4	1.74331E+07	1.6978E+07		-2.6	15
Tetrachloro-m-xylene [2C]	A	100	103	1.511388E+07	1.5542E+07		2.8	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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346

157

7 - FORM VII
CONTINUING CALIBRATION VERIFICATION
SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0729
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD6	Calibration:	1400045
Lab File ID:	E0227006.D	Calibration Date:	02/11/14 00:00
Sequence:	S005585	Injection Date:	02/27/14
Lab Sample ID:	S005585-CCV2	Injection Time:	09:29

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1248	A	100	113				13.3	15
Aroclor-1248 [2C]	A	100	103				3.3	15
Decachlorobiphenyl	A	100	103	1.38653E+07	1.4224E+07		2.6	
Decachlorobiphenyl [2C]	A	100	113	1.012238E+07	1.1404E+07		12.7	
Tetrachloro-m-xylene	A	100	109	1.74331E+07	1.9025E+07		9.1	
Tetrachloro-m-xylene [2C]	A	100	116	1.511388E+07	1.7571E+07		16.3	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory Work Order: 1480729
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Instrument ID: ECD5 Calibration: 1400045
Lab File ID: E0227018.D Calibration Date: 02/11/14 00:00
Sequence: S005585 Injection Date: 02/27/14
Lab Sample ID: S005585-CCV3 Injection Time: 12:03

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	50.0	53.5				7.0	15
Aroclor-1016 [2C]	A	50.0	57.0				14.1	15
Aroclor-1260	A	50.0	55.5				10.9	15
Aroclor-1260 [2C]	A	50.0	57.1				14.3	15
Decachlorobiphenyl	A	50.0	49.3	1.3853E+07	1.3684E+07		-1.3	
Decachlorobiphenyl [2C]	A	50.0	52.6	1.012239E+07	1.0642E+07		5.1	
Tetrachloro-m-xylene	A	50.0	52.1	1.74331E+07	1.815E+07		4.1	
Tetrachloro-m-xylene [2C]	A	50.0	53.8	1.511388E+07	1.627E+07		7.6	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data Validation Report

**WSP Group
5140 Commercial Dr.
Yorkville, New York**

SDG# 14B0788



ECT.CON INC.

Environmental and Computer
Technology Consultants

115 Riverview Bend South Unit 2144
Palm Coast, FL 32137
Office (386) 283-9360
Cell (724) 288-1971
e-mail: ectconinc@mac.com

DATA VALIDATION REPORT

Project Name: 5140 Commercial Dr. Yorkville, NY
SDG #: 14B0788

Performed for: WSP

Laboratory: Con-test Analytical Laboratory

Validation Performed by: ECT.CON INC

Validation Guidance: USEPA CLP National Functional Guidelines for Organic
Data Review (NFG)

Validation Report Date: 5/3/14

Samples/Matrix:

	Sample Date	Sample ID	Laboratory ID	Matrix
1	02/26/14	Berm-0N-125E	14B0788-01	Solid
2	02/26/14	Berm-0N-135E	14B0788-02	Solid
3	02/26/14	Berm-0N-145E	14B0788-03	Solid
4	02/26/14	Berm-0N-155E	14B0788-04	Solid
5	02/26/14	Berm-10N-125E	14B0788-05	Solid
6	02/26/14	Berm-10N-135E	14B0788-06	Solid
7	02/26/14	Berm-10N-145E	14B0788-07	Solid
8	02/26/14	Berm-10N-155E	14B0788-08	Solid
9	02/26/14	Berm-5N-122E	14B0788-09	Solid
10	02/26/14	Berm-5N-127E	14B0788-10	Solid
11	02/26/14	Berm-5N-132E	14B0788-11	Solid
12	02/26/14	Berm-5N-137E	14B0788-12	Solid
13	02/26/14	Berm-5N-142E	14B0788-13	Solid
14	02/26/14	Berm-5N-147E	14B0788-14	Solid
15	02/26/14	Berm-5N-152E	14B0788-15	Solid
16	02/26/14	Berm-5N-157E	14B0788-16	Solid
17	02/26/14	SLAB-5N-15E	14B0788-17	Solid
18	02/26/14	SLAB-5N-25E	14B0788-18	Solid
19	02/26/14	SLAB-5N-35E	14B0788-19	Solid
20	02/26/14	SLAB-5N-45E	14B0788-20	Solid
21	02/26/14	SLAB-15N-5E	14B0788-21	Solid
22	02/26/14	SLAB-15N-15E	14B0788-22	Solid
23	02/26/14	SLAB-15N-25E	14B0788-23	Solid
24	02/26/14	SLAB-15N-35E	14B0788-24	Solid
25	02/26/14	SLAB-15N-45E	14B0788-25	Solid
26	02/26/14	SLAB-25N-5E	14B0788-26	Solid
27	02/26/14	SLAB-25N-15E	14B0788-27	Solid
28	02/26/14	SLAB-20N-20E	14B0788-28	Solid
29	02/26/14	Sub Slab Pile 1N	14B0788-29	Solid
30	02/26/14	Sub Slab Pile 1S	14B0788-30	Solid

This sample set consists of the following:

Field Samples : 29
Trip Blanks : 0
Equipment Blanks : 0
Field Blanks : 0
Field Duplicates: 1

Analytical data in this report were reviewed to determine analytical limitations of the data based on specific quality control criteria. This review is performed on a laboratory signed data package. The laboratory signature indicates that the laboratory has reviewed and has certified that the information provided in the data package are correct and complete.

The results of the review are an interpretation of the reported quality control information provided by the laboratory in comparison to the specified validation criteria for the project. Laboratory calculations have been verified as part of the validation. Form I's and/or analytical results sheets are annotated with the results of the validation.

This evaluation was conducted in accordance with the requested validation guidelines, project requirement and the analytical method. Findings from this validation should be considered when using the analytical data.

The organic findings are based on the validation of the following:

- Sample Preservation
- Holding Times
- Initial Calibration
- Continuing Calibration
- Blanks (lab and field)
- System Monitoring Compounds
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- Laboratory Control Sample (LCS)
- Target Compound Identification
- Compound Quantification and Quantitation Limits
- System Performance

This report consists of the validation findings. This is followed by annotated Form I's. The final section of the report is supporting documentation. This consists of the Chain of Custody, laboratory case narrative and the validation worksheets.

Project Number: 14B0788

Method Number **Description**
 SW-846 8082 Polychlorinated Biphenyls (PCBs)

				PCB
	Sample Date	Sample ID	Laboratory ID	Matrix
1	02/26/14	Berm-0N-125E	14B0788-01	Solid
2	02/26/14	Berm-0N-135E	14B0788-02	Solid
3	02/26/14	Berm-0N-145E	14B0788-03	Solid
4	02/26/14	Berm-0N-155E	14B0788-04	Solid
5	02/26/14	Berm-10N-125E	14B0788-05	Solid
6	02/26/14	Berm-10N-135E	14B0788-06	Solid
7	02/26/14	Berm-10N-145E	14B0788-07	Solid
8	02/26/14	Berm-10N-155E	14B0788-08	Solid
9	02/26/14	Berm-5N-122E	14B0788-09	Solid
10	02/26/14	Berm-5N-127E	14B0788-10	Solid
11	02/26/14	Berm-5N-132E	14B0788-11	Solid
12	02/26/14	Berm-5N-137E	14B0788-12	Solid
13	02/26/14	Berm-5N-142E	14B0788-13	Solid
14	02/26/14	Berm-5N-147E	14B0788-14	Solid
15	02/26/14	Berm-5N-152E	14B0788-15	Solid
16	02/26/14	Berm-5N-157E	14B0788-16	Solid
17	02/26/14	SLAB-5N-15E	14B0788-17	Solid
18	02/26/14	SLAB-5N-25E	14B0788-18	Solid
19	02/26/14	SLAB-5N-35E	14B0788-19	Solid
20	02/26/14	SLAB-5N-45E	14B0788-20	Solid
21	02/26/14	SLAB-15N-5E	14B0788-21	Solid
22	02/26/14	SLAB-15N-15E	14B0788-22	Solid
23	02/26/14	SLAB-15N-25E	14B0788-23	Solid
24	02/26/14	SLAB-15N-35E	14B0788-24	Solid
25	02/26/14	SLAB-15N-45E	14B0788-25	Solid
26	02/26/14	SLAB-25N-5E	14B0788-26	Solid
27	02/26/14	SLAB-25N-15E	14B0788-27	Solid
28	02/26/14	SLAB-20N-20E	14B0788-28	Solid
29	02/26/14	Sub Slab Pile 1N	14B0788-29	Solid
30	02/26/14	Sub Slab Pile 1S	14B0788-30	Solid

FINDINGS

POLYCHLORINATED BIPHENYLS

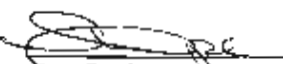
1. Positive results less than the reporting limits were qualified as estimated, "J", due to uncertainty near the detection limit.
2. The laboratory noted that sample Berm-5N-142E contained two incompletely resolved aroclors. The aroclor with the closest matching pattern was used for quantitation. In sample Berm-5N-142E, the positive result for Aroclor 1260 was qualified as estimated, "J."

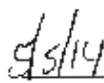
NOTES

POLYCHLORINATED BIPHENYLS

- A. Surrogate recoveries were not reported for sample Sub Slab Pile 1N due to the necessary dilution of the sample extract prior to analysis. Data were not qualified on this basis.
- B. Recoveries exceeded the upper quality control limit for Aroclor 1260 in Slab-5N-45E MS/MSD. The relative percent difference (RPD) also exceeded the upper quality control limit. The amount of Aroclor 1260 in the unspiked sample exceeded 4X the spike amount. Therefore, data were not qualified on this basis.
- C. Recoveries exceeded the upper quality control limit for Aroclor 1260 in Sub Slab Pile 1S MS/MSD. The relative percent difference (RPD) also exceeded the upper quality control limit. The amount of Aroclor 1260 in the unspiked sample exceeded 4X the spike amount. Therefore, data were not qualified on this basis.
- D. On instrument ECD 9's analytical sequence, standards for Aroclor 1232, 1221, 1262, and 1268 are listed as part of the sequence. The quantitation reports for these compounds were not included in the data package. This is noted for completeness only. Data were not qualified on this basis.
- E. On instrument ECD 3's analytical sequence, standards for Aroclor 1242, 1232, 1221, 1262, and 1268 are listed as part of the sequence. The quantitation reports for these compounds were not included in the data package. This is noted for completeness only. Data were not qualified on this basis.
- F. The following samples were analyzed and reported at the listed dilution factors due to the presence of target compounds and/or matrix interferences. Data were not qualified on this basis.

Sample	Lab ID	Dilution
Berm-0N-135E	14B0788-02	2X
Berm-10N-145E	14B0788-07	5X
Berm-5N-122E	14B0788-09	2X
Berm-5N-127E	14B0788-10	10X
Berm-5N-132E	14B0788-11	10X
Berm-5N-142E	14B0788-13	5X
Berm-5N-147E	14B0788-14	5X
Berm-5N-152E	14B0788-15	10X
Berm-5N-157E	14B0788-16	10X
SLAB-5N-35E	14B0788-19	2X
SLAB-5N-45E	14B0788-20	10X
SLAB-15N-5E	14B0788-21	5X
Sub Slab Pile 1N	14B0788-29	50X
Sub Slab Pile 1S	14B0788-30	10X


Data Reviewer


Date

Field Duplicates

Calculated RPD for positive results only.

ND – Nondetected results, -- RPD not calculated.

14B0788-22	14B0788-28		
Sample ID	Duplicate ID	Parameter	RPD
SLAB-15N-15E	SLAB-20N-20E		
0.062	0.023 J	PCBs 1260	23%

Glossary of Data Qualifiers

U	Not Detected	The associated number indicates approximate sample concentration necessary to be detected.
UJ	Not Detected	Quantitation limit may be inaccurate or imprecise.
J	Analyte Present	Reported value is an estimated quantity.
N	Consider Present	Tentative identification. Special methods may be needed to confirm its presence or absence in future sampling efforts.
R	Unusable Result	Analyte may or may not be present in the sample.
UR	Unusable Result	Analyte may or may not be present in the sample.



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9

Annotated Form 1's ***(Spreadsheet)***



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**1 - FORM I
ANALYSIS DATA SHEET****Berm-0N-125E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-01 File ID: I0227033.d
Sampled: 02/26/14 15:10 Prepared: 02/27/14 11:37 Analyzed: 02/27/14 21:58
Solids: 84.20 Preparation: SW-846 3546 Dilution: 1
Batch: 8091012 Sequence: S005587 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0072	0.023	
11104-28-2	Aroclor-1221		0.023	0.023	
11141-16-5	Aroclor-1232		0.014	0.023	
53469-21-9	Aroclor-1242		0.012	0.023	
12672-29-6	Aroclor-1248		0.014	0.023	
11097-69-1	Aroclor-1254		0.010	0.023	
11096-82-5	Aroclor-1260 [2C]	0.057	0.011	0.023	
37324-23-5	Aroclor-1262		0.0095	0.023	
11100-14-4	Aroclor-1268		0.014	0.023	

* Values outside of QC limits

4/9/14

**1 - FORM I
ANALYSIS DATA SHEET****Berm-0N-135E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-02 File ID: C0227042.d
Sampled: 02/26/14 15:15 Prepared: 02/27/14 11:37 Analyzed: 02/28/14 06:09
Solids: 86.30 Preparation: SW-846 3546 Dilution: 2
Batch: B091012 Sequence: S005588 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.014	0.046	
11104-28-2	Aroclor-1221		0.045	0.046	
11141-16-5	Aroclor-1232		0.029	0.046	
53469-21-9	Aroclor-1242		0.024	0.046	
12672-29-6	Aroclor-1248		0.027	0.046	
11097-69-1	Aroclor-1254		0.020	0.046	
11096-82-5	Aroclor-1260 [2C]	0.40	0.022	0.046	
37324-23-5	Aroclor-1262		0.019	0.046	
11100-14-4	Aroclor-1268		0.028	0.046	

* Values outside of QC limits



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**1 - FORM I
ANALYSIS DATA SHEET****Berm-0N-145E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-03 File ID: 10227035.d
Sampled: 02/26/14 15:20 Prepared: 02/27/14 11:37 Analyzed: 02/27/14 22:23
Solids: 85.60 Preparation: SW-846 3546 Dilution: 1
Batch: B091012 Sequence: S005587 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0072	0.023	
11104-28-2	Aroclor-1221		0.023	0.023	
11141-16-5	Aroclor-1232		0.014	0.023	
53469-21-9	Aroclor-1242		0.012	0.023	
12672-29-6	Aroclor-1248		0.013	0.023	
11097-69-1	Aroclor-1254		0.0099	0.023	
11096-82-5	Aroclor-1260 [2C]	0.036	0.011	0.023	
37324-23-5	Aroclor-1262		0.0095	0.023	
11100-14-4	Aroclor-1268		0.014	0.023	

* Values outside of QC limits

4/5/14



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90

13

1 - FORM I ANALYSIS DATA SHEET

Berm-0N-155E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-04 File ID: I0227036.d
Sampled: 02/26/14 15:25 Prepared: 02/27/14 11:37 Analyzed: 02/27/14 22:40
Solids: 83.90 Preparation: SW-846 3546 Dilution: 1
Batch: B091012 Sequence: S005587 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0072	0.023	
11104-28-2	Aroclor-1221		0.023	0.023	
11141-16-5	Aroclor-1232		0.014	0.023	
53469-21-9	Aroclor-1242		0.012	0.023	
12672-29-6	Aroclor-1248		0.013	0.023	
11097-69-1	Aroclor-1254		0.010	0.023	
11096-82-5	Aroclor-1260	0.16	0.011	0.023	
37324-23-5	Aroclor-1262		0.0095	0.023	
11100-14-4	Aroclor-1268		0.014	0.023	

* Values outside of QC limits

10/2/14
10/2/14

**1 - FORM I
ANALYSIS DATA SHEET****Berm-10N-125E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-05 File ID: I0227037.d
Sampled: 02/26/14 15:30 Prepared: 02/27/14 11:37 Analyzed: 02/27/14 22:58
Solids: 88.90 Preparation: SW-846 3546 Dilution: 1
Batch: B091012 Sequence: S005587 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0069	0.022	
11104-28-2	Aroclor-1221		0.022	0.022	
11141-16-5	Aroclor-1232		0.014	0.022	
53469-21-9	Aroclor-1242		0.011	0.022	
12672-29-6	Aroclor-1248		0.013	0.022	
11097-69-1	Aroclor-1254		0.0096	0.022	
11096-82-5	Aroclor-1260 [2C]	0.036	0.011	0.022	
37324-23-5	Aroclor-1262		0.0091	0.022	
11100-14-4	Aroclor-1268		0.013	0.022	

* Values outside of QC limits



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**1 - FORM I
ANALYSIS DATA SHEET****Berm-10N-135E**

Laboratory: Con-Test Analytical Laboratory SDG: 1480788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 1480788-06 File ID: 10227038.d
Sampled: 02/26/14 15:35 Prepared: 02/27/14 11:37 Analyzed: 02/27/14 23:15
Solids: 86.40 Preparation: SW-846 3546 Dilution: 1
Batch: B091012 Sequence: S005587 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0071	0.023	
11104-28-2	Aroclor-1221		0.022	0.023	
11141-16-5	Aroclor-1232		0.014	0.023	
53469-21-9	Aroclor-1242		0.012	0.023	
12672-29-6	Aroclor-1248		0.013	0.023	
11097-69-1	Aroclor-1254		0.0099	0.023	
11096-82-5	Aroclor-1260		0.011	0.023	
37324-23-5	Aroclor-1262		0.0094	0.023	
11100-14-4	Aroclor-1268		0.014	0.023	

* Values outside of QC limits



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**1 - FORM I
ANALYSIS DATA SHEET****Berm-10N-145E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-07 File ID: C0227043.d
Sampled: 02/26/14 15:40 Prepared: 02/27/14 11:37 Analyzed: 02/28/14 06:22
Solids: 88.40 Preparation: SW-846 3546 Dilution: 5
Batch: B091012 Sequence: S005588 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.035	0.11	
11104-28-2	Aroclor-1221		0.11	0.11	
11141-16-5	Aroclor-1232		0.069	0.11	
53469-21-9	Aroclor-1242		0.057	0.11	
12672-29-6	Aroclor-1248		0.065	0.11	
11097-69-1	Aroclor-1254		0.048	0.11	
11096-82-5	Aroclor-1260	0.50	0.054	0.11	
37324-23-5	Aroclor-1262		0.046	0.11	
11100-14-4	Aroclor-1268		0.067	0.11	

* Values outside of QC limits

[Signature]

1 - FORM I

ANALYSIS DATA SHEET

Berm-10N-155E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-08 File ID: I0227040.d
Sampled: 02/26/14 15:45 Prepared: 02/27/14 11:37 Analyzed: 02/27/14 23:50
Solids: 88.90 Preparation: SW-846 3546 Dilution: 1
Batch: B091012 Sequence: S005587 Calibration: 1400043 Instrument ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0068	0.022	
11104-28-2	Aroclor-1221		0.021	0.022	
11141-16-5	Aroclor-1232		0.014	0.022	
53469-21-9	Aroclor-1242		0.011	0.022	
12672-29-6	Aroclor-1248		0.013	0.022	
11097-69-1	Aroclor-1254		0.0094	0.022	
11096-82-5	Aroclor-1260		0.010	0.022	
37324-23-5	Aroclor-1262		0.0090	0.022	
11100-14-4	Aroclor-1268		0.013	0.022	

* Values outside of QC limits

4/1/14



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105

18

1 - FORM I ANALYSIS DATA SHEET

Berm-5N-122E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-09 File ID: C0227044.d
Sampled: 02/26/14 14:00 Prepared: 02/27/14 11:37 Analyzed: 02/28/14 06:35
Solids: 88.70 Preparation: SW-846 3546 Dilution: 2
Batch: B091012 Sequence: S005588 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.014	0.045	
11104-28-2	Aroclor-1221		0.044	0.045	
11141-16-5	Aroclor-1232		0.028	0.045	
53469-21-9	Aroclor-1242		0.023	0.045	
12672-29-6	Aroclor-1248		0.026	0.045	
11097-69-1	Aroclor-1254		0.019	0.045	
11096-82-5	Aroclor-1260 [2C]	0.38	0.022	0.045	
37324-23-5	Aroclor-1262		0.018	0.045	
11100-14-4	Aroclor-1268		0.027	0.045	

* Values outside of QC limits

11-11-14



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**1 - FORM I
ANALYSIS DATA SHEET****Berm-5N-127E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-10 File ID: C0227045.d
Sampled: 02/26/14 14:05 Prepared: 02/27/14 11:37 Analyzed: 02/28/14 06:48
Solids: 87.00 Preparation: SW-846 3546 Dilution: 10
Batch: B091012 Sequence: S005588 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.069	0.22	
11104-28-2	Aroclor-1221		0.22	0.22	
11141-16-5	Aroclor-1232		0.14	0.22	
53469-21-9	Aroclor-1242		0.11	0.22	
12672-29-6	Aroclor-1248		0.13	0.22	
11097-69-1	Aroclor-1254		0.096	0.22	
11096-82-5	Aroclor-1260 [2C]	1.1	0.11	0.22	
37324-23-5	Aroclor-1262		0.092	0.22	
11100-14-4	Aroclor-1268		0.13	0.22	

* Values outside of QC limits

19/04/14

1 - FORM I

ANALYSIS DATA SHEET

Berm-5N-132E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-11 File ID: C0227046.d
Sampled: 02/26/14 14:10 Prepared: 02/27/14 11:37 Analyzed: 02/28/14 07:01
Solids: 86.30 Preparation: SW-846 3546 Dilution: 10
Batch: B091012 Sequence: S005588 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.071	0.23	
11104-28-2	Aroclor-1221		0.22	0.23	
11141-16-5	Aroclor-1232		0.14	0.23	
53469-21-9	Aroclor-1242		0.12	0.23	
12672-29-6	Aroclor-1248		0.13	0.23	
11097-69-1	Aroclor-1254		0.099	0.23	
11096-82-5	Aroclor-1260	1.2	0.11	0.23	
37324-23-5	Aroclor-1262		0.094	0.23	
11100-14-4	Aroclor-1268		0.14	0.23	

* Values outside of QC limits

02/28/14



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**1 - FORM I
ANALYSIS DATA SHEET****Berm-5N-137E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-12 File ID: 10227046.d
Sampled: 02/26/14 14:15 Prepared: 02/27/14 11:37 Analyzed: 02/28/14 01:30
Solids: 84.90 Preparation: SW-846 3546 Dilution: 1
Batch: B091012 Sequence: S005587 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0072	0.023	
11104-28-2	Aroclor-1221		0.023	0.023	
11141-16-5	Aroclor-1232		0.014	0.023	
53469-21-9	Aroclor-1242		0.012	0.023	
12672-29-6	Aroclor-1248		0.013	0.023	
11097-69-1	Aroclor-1254		0.0099	0.023	
11096-82-5	Aroclor-1260 [2C]	0.019 <i>TS</i>	0.011	0.023	<i>i</i>
37324-23-5	Aroclor-1262		0.0095	0.023	
11100-14-4	Aroclor-1268		0.014	0.023	

* Values outside of QC limits

*copy
2/28/14*



39 Spruce Street * East Longmeadow, MA 01026 * FAX 413/525-6405 * TEL. 413/525-2332

**1 - FORM I
ANALYSIS DATA SHEET****Berm-5N-142E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-13 File ID: C0227047.d
Sampled: 02/26/14 14:20 Prepared: 02/27/14 11:37 Analyzed: 02/28/14 07:14
Solids: 84.80 Preparation: SW-846 3546 Dilution: 5
Batch: B091012 Sequence: S005588 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.036	0.12	
11104-28-2	Aroclor-1221		0.11	0.12	
11141-16-5	Aroclor-1232		0.072	0.12	
53469-21-9	Aroclor-1242		0.060	0.12	
12672-29-6	Aroclor-1248		0.068	0.12	
11097-69-1	Aroclor-1254		0.050	0.12	
11096-82-5	Aroclor-1260 [2C]	0.89	0.056	0.12	0.03
37324-23-5	Aroclor-1262		0.048	0.12	
11100-14-4	Aroclor-1268		0.070	0.12	

* Values outside of QC limits

14/3/14



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TFL 413/525-2532

**1 - FORM I
ANALYSIS DATA SHEET****Berm-5N-147E**

Laboratory: Con-Test Analytical Laboratory SOG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-14 File ID: C0227048.d
Sampled: 02/26/14 14:25 Prepared: 02/27/14 11:37 Analyzed: 02/28/14 07:27
Solids: 83.00 Preparation: SW-846 3546 Dilution: 5
Batch: B091012 Sequence: S005588 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.037	0.12	
11104-28-2	Aroclor-1221		0.12	0.12	
11141-16-5	Aroclor-1232		0.073	0.12	
53469-21-9	Aroclor-1242		0.060	0.12	
12672-29-6	Aroclor-1248		0.069	0.12	
11097-69-1	Aroclor-1254		0.051	0.12	
11096-82-5	Aroclor-1260 [2C]	0.55	0.057	0.12	
37324-23-5	Aroclor-1262		0.048	0.12	
11100-14-4	Aroclor-1268		0.071	0.12	

* Values outside of QC limits

14/3/14
JL

1 - FORM I

ANALYSIS DATA SHEET

Berm-5N-152E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14B0788-15 File ID: C0227049.d
 Sampled: 02/26/14 14:30 Prepared: 02/27/14 11:37 Analyzed: 02/28/14 07:40
 Solids: 85.00 Preparation: SW-846 3546 Dilution: 10
 Batch: B091012 Sequence: S005588 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.071	0.23	
11104-28-2	Aroclor-1221		0.22	0.23	
11141-16-5	Aroclor-1232		0.14	0.23	
53469-21-9	Aroclor-1242		0.12	0.23	
12672-29-6	Aroclor-1248		0.13	0.23	
11097-69-1	Aroclor-1254		0.098	0.23	
11096-82-5	Aroclor-1260 [2C]	2.1	0.11	0.23	
37324-23-5	Aroclor-1262		0.094	0.23	
11100-14-4	Aroclor-1268		0.14	0.23	

* Values outside of QC limits



38 Spruce Street * East Longmeadow, MA 01078 * FAX 413/525-6405 * TEL. 413/525-2332

126

25

1 - FORM I ANALYSIS DATA SHEET

Berm-5N-157E

Laboratory: Con-Test Analytical Laboratory SDG: 1480788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 1480788-16 File ID: C0227063.d
Sampled: 02/26/14 14:35 Prepared: 02/27/14 11:37 Analyzed: 02/28/14 10:42
Solids: 84.30 Preparation: SW-846 3546 Dilution: 10
Batch: B091012 Sequence: S005588 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.071	0.23	
11104-28-2	Aroclor-1221		0.23	0.23	
11141-16-5	Aroclor-1232		0.14	0.23	
53469-21-9	Aroclor-1242		0.12	0.23	
12672-29-6	Aroclor-1248		0.13	0.23	
11097-69-1	Aroclor-1254		0.099	0.23	
11096-82-5	Aroclor-1260 [2C]	1.8	0.11	0.23	
37324-23-5	Aroclor-1262		0.094	0.23	
11100-14-4	Aroclor-1268		0.14	0.23	

* Values outside of QC limits

157E

1 - FORM I

ANALYSIS DATA SHEET

SLAB-5N-15E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-17 File ID: I0227051.d
Sampled: 02/26/14 11:00 Prepared: 02/27/14 11:37 Analyzed: 02/28/14 02:57
Solids: 79.20 Preparation: SW-846 3546 Dilution: 1
Batch B091012 Sequence: S005587 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0077	0.025	
11104-28-2	Aroclor-1221		0.024	0.025	
11141-16-5	Aroclor-1232		0.015	0.025	
53469-21-9	Aroclor-1242		0.013	0.025	
12672-29-6	Aroclor-1248		0.014	0.025	
11097-69-1	Aroclor-1254		0.011	0.025	
11096-82-5	Aroclor-1260		0.012	0.025	
37324-23-5	Aroclor-1262		0.010	0.025	
11100-14-4	Aroclor-1268		0.015	0.025	

* Values outside of QC limits





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**1 - FORM I
ANALYSIS DATA SHEET****SLAB-5N-25E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-18 File ID: 10227052.d
Sampled: 02/26/14 11:05 Prepared: 02/27/14 11:37 Analyzed: 02/28/14 03:15
Solids: 78.90 Preparation: SW-846 3546 Dilution: 1
Batch: B091012 Sequence: S005587 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0079	0.025	
11104-28-2	Aroclor-1221		0.025	0.025	
11141-16-5	Aroclor-1232		0.016	0.025	
53469-21-9	Aroclor-1242		0.013	0.025	
12672-29-6	Aroclor-1248		0.015	0.025	
11097-69-1	Aroclor-1254		0.011	0.025	
11096-82-5	Aroclor-1260	0.017 <i>5</i>	0.012	0.025	<i>✓</i>
37324-23-5	Aroclor-1262		0.010	0.025	
11100-14-4	Aroclor-1268		0.015	0.025	

* Values outside of QC limits

02/28/14



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135

28

1 - FORM I ANALYSIS DATA SHEET

SLAB-5N-35E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-19 File ID: C0227050.d
Sampled: 02/26/14 11:10 Prepared: 02/27/14 11:37 Analyzed: 02/28/14 07:53
Solids: 85.90 Preparation: SW-846 3546 Dilution: 2
Batch: B091012 Sequence: S005588 Calibration: 140D032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.014	0.045	
11104-28-2	Aroclor-1221		0.044	0.045	
11141-16-5	Aroclor-1232		0.028	0.045	
53469-21-9	Aroclor-1242		0.023	0.045	
12672-29-6	Aroclor-1248	0.038 <i>T</i>	0.026	0.045	<i>✓</i>
11097-69-1	Aroclor-1254		0.019	0.045	
11096-82-5	Aroclor-1260 [2C]	0.44	0.022	0.045	
37324-23-5	Aroclor-1262		0.019	0.045	
11100-14-4	Aroclor-1268		0.027	0.045	

* Values outside of QC limits

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**1 - FORM I
ANALYSIS DATA SHEET****SLAB-5N-45E**

Laboratory: Con-Test Analytical Laboratory SDG: 1490788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-20 File ID: C0227062.d
Sampled: 02/26/14 11:15 Prepared: 02/27/14 11:37 Analyzed: 02/28/14 10:29
Solids: 88.30 Preparation: SW-846 3546 Dilution: 10
Batch: B091012 Sequence: S005588 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.069	0.22	
11104-28-2	Aroclor-1221		0.22	0.22	
11141-16-5	Aroclor-1232		0.14	0.22	
53469-21-9	Aroclor-1242		0.11	0.22	
12672-29-6	Aroclor-1248		0.13	0.22	
11097-69-1	Aroclor-1254		0.095	0.22	
11096-82-5	Aroclor-1260	1.8	0.11	0.22	
37324-23-5	Aroclor-1262		0.091	0.22	
11100-14-4	Aroclor-1268		0.13	0.22	

* Values outside of QC limits

11/11/14



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1 - FORM I

ANALYSIS DATA SHEET

SLAB-15N-5E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14B0788-21 File ID: C0227039.d
 Sampled: 02/26/14 11:20 Prepared: 02/27/14 11:41 Analyzed: 02/28/14 05:30
 Solids: 90.20 Preparation: SW-846 3546 Dilution: 5
 Batch: B091013 Sequence: S005588 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.033	0.11	
11104-28-2	Aroclor-1221		0.11	0.11	
11141-16-5	Aroclor-1232		0.067	0.11	
53469-21-9	Aroclor-1242		0.055	0.11	
12672-29-6	Aroclor-1248		0.062	0.11	
11097-69-1	Aroclor-1254		0.046	0.11	
11096-82-5	Aroclor-1260 [2C]	0.75	0.052	0.11	
37324-23-5	Aroclor-1262		0.044	0.11	
11100-14-4	Aroclor-1268		0.065	0.11	

* Values outside of QC limits

147



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

**1 - FORM I
ANALYSIS DATA SHEET****SLAB-15N-15E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-22 File ID: C0227020.d
Sampled: 02/26/14 11:25 Prepared: 02/27/14 11:41 Analyzed: 02/27/14 22:41
Solids: 77.10 Preparation: SW-846 3546 Dilution: 1
Batch: B091013 Sequence: S005588 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0078	0.025	
11104-28-2	Aroclor-1221		0.025	0.025	
11141-16-5	Aroclor-1232		0.016	0.025	
53469-21-9	Aroclor-1242		0.013	0.025	
12672-29-6	Aroclor-1248		0.015	0.025	
11097-69-1	Aroclor-1254		0.011	0.025	
11096-82-5	Aroclor-1260 [2C]	0.062	0.012	0.025	
37324-23-5	Aroclor-1262		0.010	0.025	
11100-14-4	Aroclor-1268		0.015	0.025	

* Values outside of QC limits



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**1 - FORM I
ANALYSIS DATA SHEET****SLAB-15N-25E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-23 File ID: C0227021.d
Sampled: 02/26/14 11:30 Prepared: 02/27/14 11:41 Analyzed: 02/27/14 22:54
Solids: 78.10 Preparation: SW-846 3546 Dilution: 1
Batch: B091013 Sequence: S005588 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0079	0.026	
11104-28-2	Aroclor-1221		0.025	0.026	
11141-16-5	Aroclor-1232		0.016	0.026	
53469-21-9	Aroclor-1242		0.013	0.026	
12672-29-6	Aroclor-1248		0.015	0.026	
11097-69-1	Aroclor-1254		0.011	0.026	
11095-82-5	Aroclor-1260 [2C]	0.094	0.012	0.026	
37324-23-5	Aroclor-1262		0.010	0.026	
11100-14-4	Aroclor-1268		0.015	0.026	

* Values outside of QC limits



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1 - FORM I ANALYSIS DATA SHEET

SLAB-15N-35E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14B0788-24 File ID: C0227022.d
 Sampled: 02/26/14 11:35 Prepared: 02/27/14 11:41 Analyzed: 02/27/14 23:07
 Solids: 84.90 Preparation: SW-846 3546 Dilution: 1
 Batch: B091013 Sequence: S005588 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0072	0.023	
11104-28-2	Aroclor-1221		0.023	0.023	
11141-16-5	Aroclor-1232		0.014	0.023	
53468-21-9	Aroclor-1242		0.012	0.023	
12672-29-6	Aroclor-1248	0.038	0.013	0.023	
11097-69-1	Aroclor-1254		0.0099	0.023	
11096-82-5	Aroclor-1260 [2C]	0.21	0.011	0.023	
37324-23-5	Aroclor-1262		0.0095	0.023	
11100-14-4	Aroclor-1268		0.014	0.023	

* Values outside of QC limits



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**1 - FORM I
ANALYSIS DATA SHEET****SLAB-15N-45E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-25 File ID: C0227023.d
Sampled: 02/26/14 11:40 Prepared: 02/27/14 11:41 Analyzed: 02/27/14 23:20
Solids: 80.60 Preparation: SW-846 3546 Dilution: 1
Batch: B091013 Sequence: S005588 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0076	0.025	
11104-28-2	Aroclor-1221		0.024	0.025	
11141-16-5	Aroclor-1232		0.015	0.025	
53469-21-9	Aroclor-1242		0.013	0.025	
12672-29-6	Aroclor-1248		0.014	0.025	
11097-69-1	Aroclor-1254		0.011	0.025	
11096-82-5	Aroclor-1260 [2C]	0.065	0.012	0.025	
37324-23-5	Aroclor-1262		0.010	0.025	
11100-14-4	Aroclor-1268		0.015	0.025	

* Values outside of QC limits



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**1 - FORM I
ANALYSIS DATA SHEET****SLAB-25N-5E**

Laboratory: Con-Test Analytical Laboratory SOG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-26 File ID: C0227024.d
Sampled: 02/26/14 11:45 Prepared: 02/27/14 11:41 Analyzed: 02/27/14 23:33
Solids: 88.00 Preparation: SW-846 3546 Dilution: 1
Batch: B091013 Sequence: S005588 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0069	0.022	
11104-28-2	Aroclor-1221		0.022	0.022	
11141-16-5	Aroclor-1232		0.014	0.022	
53469-21-9	Aroclor-1242		0.011	0.022	
12672-29-6	Aroclor-1248		0.013	0.022	
11097-69-1	Aroclor-1254		0.0096	0.022	
11096-82-5	Aroclor-1260 [2C]	0.10	0.011	0.022	
37324-23-5	Aroclor-1262		0.0091	0.022	
11100-14-4	Aroclor-1268		0.013	0.022	

* Values outside of QC limits



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**1 - FORM I
ANALYSIS DATA SHEET****SLAB-25N-15E**

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-27 File ID: C0227025.d
Sampled: 02/26/14 11:50 Prepared: 02/27/14 11:41 Analyzed: 02/27/14 23:46
Solids: 89.70 Preparation: SW-846 3546 Dilution: 1
Batch: B091013 Sequence: S005588 Calibration: 1400032 Instrument: ECO3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0067	0.022	
11104-28-2	Aroclor-1221		0.021	0.022	
11141-16-5	Aroclor-1232		0.013	0.022	
53469-21-9	Aroclor-1242		0.011	0.022	
12672-29-6	Aroclor-1248		0.013	0.022	
11097-69-1	Aroclor-1254		0.0093	0.022	
11096-82-5	Aroclor-1260 [2C]	0.013	0.010	0.022	✓
37324-23-5	Aroclor-1262		0.0089	0.022	
11100-14-4	Aroclor-1268		0.013	0.022	

* Values outside of QC limits



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

172

37

1 - FORM I ANALYSIS DATA SHEET

SLAB-20N-20E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-28 File ID: C0227026.d
Sampled: 02/26/14 11:55 Prepared: 02/27/14 11:41 Analyzed: 02/27/14 23:59
Solids: 77.70 Preparation: SW-846 3546 Dilution: 1
Batch: B091013 Sequence: S005588 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0077	0.025	
11104-28-2	Aroclor-1221		0.024	0.025	
11141-16-5	Aroclor-1232		0.015	0.025	
53469-21-9	Aroclor-1242		0.013	0.025	
12672-29-6	Aroclor-1248		0.014	0.025	
11097-69-1	Aroclor-1254		0.011	0.025	
11096-82-5	Aroclor-1260 [2C]	0.023	0.012	0.025	J
37324-23-5	Aroclor-1262		0.010	0.025	
11100-14-4	Aroclor-1268		0.015	0.025	

* Values outside of QC limits

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1/14/14



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-8405 * TEL, 413/525-2332

175

38

1 - FORM I ANALYSIS DATA SHEET

Sub Slab Pile 1N

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-29 File ID: C0227040.d
Sampled: 02/26/14 12:00 Prepared: 02/27/14 11:41 Analyzed: 02/28/14 05:43
Solids: 85.40 Preparation: SW-846 3546 Dilution: 50
Batch: B091013 Sequence S005588 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1015		0.35	1.1	
11104-28-2	Aroclor-1221		1.1	1.1	
11141-16-5	Aroclor-1232		0.70	1.1	
53469-21-9	Aroclor-1242		0.58	1.1	
12672-29-6	Aroclor-1248 [2C]		0.66	1.1	
11097-69-1	Aroclor-1254		0.49	1.1	
11096-82-5	Aroclor-1260 [2C]	6.1	0.55	1.1	
37324-23-5	Aroclor-1262		0.47	1.1	
11100-14-4	Aroclor-1268		0.68	1.1	

* Values outside of QC limits

100
5.1.12



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

1 - FORM I

ANALYSIS DATA SHEET

Sub Slab Pile 1S

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14B0788-30 File ID: C0227041.d
 Sampled: 02/26/14 12:10 Prepared: 02/27/14 11:41 Analyzed: 02/28/14 06:56
 Solids: 87.60 Preparation: SW-846 3546 Dilution: 10
 Batch: B091013 Sequence: S005598 Calibration: 1400032 Instrument: ECD3

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.069	0.22	
11104-28-2	Aroclor-1221		0.22	0.22	
11141-16-5	Aroclor-1232		0.14	0.22	
53469-21-9	Aroclor-1242		0.11	0.22	
12672-29-6	Aroclor-1248 [2C]	0.16 <i>5</i>	0.13	0.22	<i>6</i>
11097-69-1	Aroclor-1254		0.096	0.22	
11096-82-5	Aroclor-1260	2.3	0.11	0.22	
37324-23-5	Aroclor-1262		0.092	0.22	
11100-14-4	Aroclor-1268		0.13	0.22	

* Values outside of QC limits



526

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

1 - FORM I
ANALYSIS DATA SHEET
Berm-0N-125E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0788

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0788-01

Sampled: 02/26/14 15:10

% Solids: 84.20

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	84.2			1		B091039	02/28/14 08:00	SM 2540G

14B0788-01
02/28/14



527

41

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

1 - FORM I
ANALYSIS DATA SHEET
Berm-0N-135E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-02
Sampled: 02/26/14 15:15
% Solids: 86.30

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	86.3			1		B091039	02/28/14 08:00	SM 2540G

COPY
3/2/14



528

42

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

1 - FORM I
ANALYSIS DATA SHEET
Berm-0N-145E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0788

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0788-03

Sampled: 02/26/14 15:20

% Solids: 85.60

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	85.6			1		B091039	02/28/14 08:00	SM 2540G

4/14/14



529

43

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

1 - FORM I
ANALYSIS DATA SHEET
Berm-0N-155E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0788

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0788-04

Sampled: 02/26/14 15:25

% Solids: 83.90

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	83.9			1		B091039	02/28/14 08:00	SM 2540G

J.L.L.
2/28/14



530

44

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

1 - FORM I
ANALYSIS DATA SHEET
Berm-10N-125E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-05
Sampled: 02/26/14 15:30
% Solids: 88.90

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	88.9			1		B091038	02/28/14 08:00	SM 2540G

CUT
2/23/14



531

45

39 Spruce Street * East Longmeadow, MA 01026 * FAX 413/525-6405 * TEL. 413/525-2332

1 - FORM I
ANALYSIS DATA SHEET
Berm-10N-135E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-06
Sampled: 02/26/14 15:35
% Solids: 86.40

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	86.4			1		B091039	02/28/14 08:00	SM 2540G

Cody
02/27/14



532

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

1 - FORM I
ANALYSIS DATA SHEET
Berm-10N-145E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-07
Sampled: 02/26/14 15:40
% Solids: 88.40

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	88.4			1		B091039	02/28/14 08:00	SM 2540C



533

47

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

1 - FORM I
ANALYSIS DATA SHEET
Berm-10N-155E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0788

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0788-08

Sampled: 02/26/14 15:45

% Solids: 88.90

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	88.9			1		B091039	02/28/14 08:00	SM 2540G

5/1/14

48

534



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

1 - FORM I
ANALYSIS DATA SHEET
Berm-5N-122E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-09
Sampled: 02/26/14 14:00
% Solids: 88.70

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	88.7			1		B091039	02/28/14 08:00	SM 2540G

CLM
3/4/14



535

219

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

1 - FORM I
ANALYSIS DATA SHEET
Berm-5N-127E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-10
Sampled: 02/26/14 14:05
% Solids: 87.00

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	87.0			1		B091039	02/28/14 08:00	SM 2540G

4/1/14
14:00



536

50

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

1 - FORM I
ANALYSIS DATA SHEET
Berm-5N-132E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0788

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0788-11

Sampled: 02/26/14 14:10

% Solids: 86.30

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	86.3			1		B091039	02/28/14 08:00	SM 2540G

50
5/14/14



537

39 Spruce Street * East Longmeadow, MA 01026 * FAX 413/525-8405 * TEL. 413/525-2332

1 - FORM I
ANALYSIS DATA SHEET
Berm-5N-137E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-12
Sampled: 02/26/14 14:15
% Solids: 84.90

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	84.9			1		B091039	02/28/14 08 00	SM 2540G

5/2/14



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-5405 * TEL 413/525-2332

538

52

1 - FORM I
ANALYSIS DATA SHEET
Berm-5N-142E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0788

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0788-13

Sampled: 02/25/14 14:20

% Solids: 84.80

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	84.8			1		B091039	02/28/14 08:00	SM 2540G

14B0788-13

53
539

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

1 - FORM I
ANALYSIS DATA SHEET
Berm-5N-147E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0788

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0788-14

Sampled: 02/26/14 14:25

% Solids: 83.00

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	83.0			1		B091039	02/28/14 08:00	SM 2540G

14B0788-14
02/28/14

54
540

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

1 - FORM I
ANALYSIS DATA SHEET

Berm-5N-152E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0788

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0788-15

Sampled: 02/26/14 14:30

% Solids: 85.00

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	85.0			1		B091039	02/28/14 08:00	SM 2540G

COPY
2/28/14



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

541

55

1 - FORM I
ANALYSIS DATA SHEET
Berm-5N-157E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0788

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0788-16

Sampled: 02/26/14 14:35

% Solids: 84.30

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	84.3			1		B091039	02/28/14 08:00	SM 2540G

14B0788-16
02/28/14



542

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

1 - FORM I
ANALYSIS DATA SHEET
SLAB-5N-15E

Laboratory: Con-Test Analytical Laboratory SDG. 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-17
Sampled: 02/26/14 11:00
% Solids: 79.20

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	79.2			1		B091039	02/28/14 08:00	SM 2510G

11/6/14
11/6/14

57
543

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-8405 * TEL. 413/525-2332

1 - FORM I
ANALYSIS DATA SHEET
SLAB-5N-25E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-18
Sampled: 02/26/14 11:05
% Solids: 78.90

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	78.9			1		B091039	02/28/14 08:00	SM 2540G

CCL
02/28/14



39 Spruce Street * East Longmeadow MA 01028 * FAX 413/525-8405 * TEL. 413/525-2332

1 - FORM I
ANALYSIS DATA SHEET
SLAB-5N-35E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0788

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0788-19

Sampled: 02/26/14 11:10

% Solids: 85.90

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	85.9			1		B091039	02/28/14 08:00	SM 2540G

CCL
2/28/14



545

SA

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

1 - FORM I
ANALYSIS DATA SHEET
SLAB-5N-45E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0788

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0788-20

Sampled: 02/26/14 11:15

% Solids: 88.30

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	88.3			1		B091039	02/28/14 08:00	SM 2540G

445
2/28/14



546

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

1 - FORM I
ANALYSIS DATA SHEET
SLAB-15N-5E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0788

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0788-21

Sampled: 02/26/14 11:20

% Solids: 90.20

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	90.2			1		B091039	02/28/14 08:00	SM 2540G

60
L. J. J. J. J.
10/10/14



547

61

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

1 - FORM I
ANALYSIS DATA SHEET
SLAB-15N-15E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-22
Sampled: 02/26/14 11:25
% Solids: 77.10

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	77.1			1		B091039	02/28/14 08:00	SM 2540G

62

548



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

1 - FORM I
ANALYSIS DATA SHEET
SLAB-15N-25E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-23
Sampled: 02/26/14 11:30
% Solids: 78.10

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	78.1			1		B091039	02/28/14 08.00	SM 2540G

14B0788-23

63

549



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

1 - FORM I
ANALYSIS DATA SHEET
SLAB-15N-35E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-24
Sampled: 02/26/14 11:35
% Solids: 84.90

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	84.9			1		B091039	02/28/14 08:00	SM 2540G

14B0788-24
5/21/14



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

550

64

1 - FORM I
ANALYSIS DATA SHEET
SLAB-15N-45E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-25
Sampled: 02/26/14 11:40
% Solids: 80.60

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	80.6			1		6091039	02/28/14 08:00	SM 2540G

WSP

65

551



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

1 - FORM I
ANALYSIS DATA SHEET
SLAB-25N-5E

Laboratory: Con-Test Analytical Laboratory SOG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-26
Sampled: 02/26/14 11:45
% Solids: 88.00

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	88.0			1		B091039	02/28/14 08:00	SM 2540C

66
2/28/14



552

66

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

1 - FORM I
ANALYSIS DATA SHEET
SLAB-25N-15E

Laboratory: Con-Test Analytical Laboratory

SDG: 14B0788

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14B0788-27

Sampled: 02/26/14 11:50

% Solids: 89.70

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	89.7			1		B091039	02/28/14 08:00	SM 2540G

3/10/14
2:50 PM



553

67

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

1 - FORM I
ANALYSIS DATA SHEET
SLAB-20N-20E

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-28
Sampled: 02/26/14 11:55
% Solids: 77.70

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	77.7			1		B091039	02/28/14 08:00	SM 2540G

67
2/28/14



554

68

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-8405 * TEL. 413/525-2332

1 - FORM I
ANALYSIS DATA SHEET
Sub Slab Pile 1N

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-29
Sampled: 02/26/14 12:00
% Solids: 85.40

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	85.4			1		B081039	02/28/14 08:00	SM 2540G

14B0788-29
02/27/14



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-8405 * TEL. 413/525-2332

1 - FORM I
ANALYSIS DATA SHEET
Sub Slab Pile 1S

Laboratory: Con-Test Analytical Laboratory SDG: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14B0788-30
Sampled: 02/26/14 12:10
% Solids: 87.60

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	87.6			1		B091039	02/28/14 08:00	SM 2540G



ECT.CON INC.

Environmental and Computer
Technology Consultants

Support Documentation

Laboratory Case Narrative

February 28, 2014

Dave Bouchard
WSP
5 Sullivan Street
Cazenovia, NY 13035

Project Location: 5140 Site - Yorkville, NY
Client Job Number:
Project Number: E0032927.000/05
Laboratory Work Order Number 14B0788

Enclosed are results of analyses for samples received by the laboratory on February 27, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Aaron J. Bennit
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-8405 * TEL. 413/525-2332

WSP
5 Sullivan Street
Cazenovia, NY 13025
ATTN: Duane Bouchard

REPORT DATE 2/28/2014

PURCHASE ORDER NUMBER.

PROJECT NUMBER. E0032927.000-05

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14B0788

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

PROJECT LOCATION: 514B Site - Yorkville, NY

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Berm-0N-125E	14B0788-01	Soil		SM 2540G SW-846 B082A	
Berm-0N-135E	14B0788-02	Soil		SM 2540G SW-846 B082A	
Berm-0N-145E	14B0788-03	Soil		SM 2540G SW-846 B082A	
Berm-0N-155E	14B0788-04	Soil		SM 2540G SW-846 B082A	
Berm-10N-125E	14B0788-05	Soil		SM 2540G SW-846 B082A	
Berm-10N-135E	14B0788-06	Soil		SM 2540G SW-846 B082A	
Berm-10N-145E	14B0788-07	Soil		SM 2540G SW-846 B082A	
Berm-10N-155E	14B0788-08	Soil		SM 2540G SW-846 B082A	
Berm-5N-122E	14B0788-09	Soil		SM 2540G SW-846 B082A	
Berm-5N-127E	14B0788-10	Soil		SM 2540G SW-846 B082A	
Berm-5N-132E	14B0788-11	Soil		SM 2540G SW-846 B082A	
Berm-5N-137E	14B0788-12	Soil		SM 2540G SW-846 B082A	
Berm-5N-142E	14B0788-13	Soil		SM 2540G SW-846 B082A	
Berm-5N-147E	14B0788-14	Soil		SM 2540G SW-846 B082A	
Berm-5N-152E	14B0788-15	Soil		SM 2540G SW-846 B082A	
Berm-5N-157E	14B0788-16	Soil		SM 2540G SW-846 B082A	
SLAB-5N-157E	14B0788-17	Soil		SM 2540G SW-846 B082A	
SLAB-5N-25E	14B0788-18	Soil		SM 2540G SW-846 B082A	
SLAB-5N-35E	14B0788-19	Soil		SM 2540G SW-846 B082A	
SLAB-5N-45E	14B0788-20	Soil		SM 2540G SW-846 B082A	

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WSP
5 Sullivan Street
Cazenovia, NY 13035
ATTN: Dave Bouchard

REPORT DATE: 02/28/2014

PURCHASE ORDER NUMBER

PROJECT NUMBER: E0032927.000-04

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14B0788

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

PROJECT LOCATION: 5140 Site - Yorkville, NY

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SLAB-15N-5E	14B0788-21	Soil		SM 2540G SW-846 B082A	
SLAB-15N-15E	14B0788-22	Soil		SM 2540G SW-846 B082A	
SLAB-15N-25E	14B0788-23	Soil		SM 2540G SW-846 B082A	
SLAB-15N-35E	14B0788-24	Soil		SM 2540G SW-846 B082A	
SLAB-15N-45E	14B0788-25	Soil		SM 2540G SW-846 B082A	
SLAB-25N-5E	14B0788-26	Soil		SM 2540G SW-846 B082A	
SLAB-25N-15E	14B0788-27	Soil		SM 2540G SW-846 B082A	
SLAB-20N-20E	14B0788-28	Soil		SM 2540G SW-846 B082A	
Sub Slab Pile 1N	14B0788-29	Soil		SM 2540G SW-846 B082A	
Sub Slab Pile 1S	14B0788-30	Soil		SM 2540G SW-846 B082A	

CASE NARRATIVE SUMMARY

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

SW-846 B0R2A

Qualifications:

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Sample(s) Qualified:

Aroclor-1260, Aroclor-1260 [2C]

B091012-MSL, B091012-MSD1, B091013-MSL, B091013-MSD1

Sample contains two incompletely resolved aroclors. Aroclor with the closest matching pattern is reported.

Analyte & Sample(s) Qualified:

Aroclor-1260, Aroclor-1260 [2C]

14B0788-13[Beim-SV-142E]

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Sample(s) Qualified:

Aroclor-1260, Aroclor-1260 [2C]

B091012-MSL, B091012-MSD1, B091013-MSL, B091013-MSD1

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Sample(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]

14B0788-29[Sub Slab Pile IN]

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

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



Michael A. Erickson
Laboratory Director

Chain of Custody

CHAIN OF CUSTODY RECORD 1480788

Page 1 of 2

Project Number: 30927/005		Site and Location: 5140 Cambridge Dr., Woburn, MA		Matrix:		Number of Containers		Remarks	
Contact Name: Kevin Sullivan		Contact Email: kevin.sullivan@wsp.com		S = Soil Aq = Aqueous W = Waste Bt = Biological OW = Only Water O = Other					
Sampler's Name: Kevin Sullivan		Sampler's Signature: [Signature]							
Sample Identification	Depth	Date	Time	Matrix					
Beam ON-125E	1ft	2/26/14	1510	S					-01
Beam ON-135E			1515						-02
Beam ON-145E			1520						-03
Beam ON-155E			1525						-04
Beam ON-125E			1530						-05
Beam ON-135E			1535						-06
Beam ON-145E			1540						-07
Beam ON-155E			1545						-08
Beam SN-127E	2ft		1400						-09
Beam SN-127E			1405						-10
Beam SN-132E			1410						-11
Beam SN-137E			1415						-12
Beam SN-140E			1420						-13
Beam SN-147E			1425						-14
Beam SN-152E			1430						-15
Beam SN-157E			1435						-16

Relinquished by (Signature): [Signature]	Received by (Signature): [Signature]	Laboratory Name: CAS-TEST
Relinquished by (Signature): [Signature]	Received by (Signature): [Signature]	Laboratory Location: EAST Longmeadow, MA
Turn-Around Time:	Tracking Number:	Custody Seal Numbers:
		Method of Shipment:



WSP Environment & Energy

- ☐ Reston Office: 11190 Sunrise Valley Dr., #300, Reston, VA 20191 / Tel: 703-799-6500
- ☐ Pittsburgh Office: 750 Holiday Dr., #410, Pittsburgh, PA 15220 / Tel: 412-604-1040
- ☐ San Jose Office: 2025 Gateway Place, #435, San Jose, CA 95110 / Tel: 408-453-6100
- ☐ New Jersey Office: 200 Cottonail Ln., Somerset, NJ 08873 / Tel: 732-564-0888
- ☐ Denver Office: 4600 South Ulster, #930, Denver, CO 80237 / Tel: 303-850-9200
- ☐ Minneapolis Office: 123 North 3rd St., #808, Minneapolis, MN 55401 / Tel: 612-343-0510
- ☐ Woburn Office: 300 Trade Center, Suite 4690, Woburn, MA 01801
- ☒ Cazenovia Office: 5 Sullivan St., Cazenovia, NY 13035 / Tel: 315-655-3900

77

CHAIN OF CUSTODY RECORD

Page 2 of 2

1430788

Project Number: 30927		Site and Location:		Matrices: S = Soil Aq = Water A = Air Bu = Bulk W = Waste Bt = Biot OW = Only Waste O = Other		Number of Containers		Remarks	
Contact Name: Dave Baughtman		Contact Email: Dave.Baughtman@wsp.com		Sample's Name: Kevin Sullivan		Sample's Signature: [Signature]		Nº	
Sample Identification:	Depth:	Date:	Time:	Matrix:					
SLAB SN-15E	0.6'	2/20/14	1100	S	X				-17
SLAB SN-25E			1105	S	X				-18
SLAB SN-35E			1110		X				-19
SLAB SN-45E			1115		X				-20
SLAB SN-55E			1120		X				-21
SLAB SN-15E			1125		X				-22
SLAB SN-25E			1130		X				-23
SLAB SN-35E			1135		X				-24
SLAB SN-45E			1140		X				-25
SLAB SN-55E			1145		X				-26
SLAB SN-15E			1150		X				-27
SLAB SN-20E			1155		X				-28
SUBSLAB Pile IN	NA		1200		X				-29
SUBSLAB Pile IS	NA		1210		X				-30

Requisitioned by (Signature): [Signature]	Received by (Signature):	Laboratory Name:
Date Time: 2/20/14 1530	Date Time: 2/20/14 1530	Laboratory Location:
Relinquished by (Signature): [Signature]	Received by (Signature): [Signature]	Custody Seal Numbers:
Date Time: 2/20/14 1530	Date Time: 2/20/14 1530	Method of Shipment:
Turn-Around Time:	Tracking Number:	



WSP Environment & Energy

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- ☐ New Jersey Office: 200 Cottonail Ln., Somerset, NJ 08873 / Tel: 732-564-0858
- ☐ Denver Office: 4600 South Ulster, #930, Denver, CO 80237 / Tel: 303-850-9200
- ☐ Minneapolis Office: 123 North 3rd St., #808, Minneapolis, MN 55401 / Tel: 612-343-0510
- ☐ Woburn Office: 300 Trade Center, Suite 4690, Woburn, MA 01801
- ☒ Cazenovia Office: 5 Sullivan St., Cazenovia, NY 13035 / Tel: 315-655-3900

79

39 Spruce St.
East Longmeadow, MA 01028
P: 413-525-2332
F: 413-525-8405
www.contestlabs.com



Page 1 of 2



Sample Receipt Checklist

CLIENT NAME: WSP RECEIVED BY: CEC DATE: 2/27/14

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples?

If not, explain:

3) Are all the samples in good condition?

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank 2.0 Temperature °C by Temp gun _____

5) Are there Dissolved samples for the lab to filter?

Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	<u>30</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Time and Date Frozen:

Doc# 277: # Bisulfate _____ # DI Water _____

Rev. 4 August 2013: # Thiosulfate _____ Unpreserved _____

Page 2 of 2

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	NA	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements?

Date/Time:

Doc #277 Rev. 4 August 2013

Log-In Technician Initials:

Date/Time:

CEC

2/27/14

Worksheets

PERCENT SOLIDS

Preservative - Cool - 4C
Hold Time - 7 days

Sample Date	Sample ID	Laboratory ID	Matrix	Preservative	Days to Analysis	Date Analyzed	Dish Wgt	Sample Mass Wet	Sample Mass Dry	Calcd %S	Rptd %S
1 02/26/14	Berm-0N-125E	14B0788-01	Solid	ok	1	2/27/14	1.044	16.8	14.303	84.2	84.2
2 02/26/14	Berm-0N-135E	14B0788-02	Solid	ok	1	2/27/14	1.036	17.987	11.353	86.3	86.3
3 02/26/14	Berm-0N-145E	14B0788-03	Solid	ok	1	2/27/14	1.037	13.101	11.368	85.6	85.6
4 02/26/14	Berm-0N-155E	14B0788-04	Solid	ok	1	2/27/14	1.034	14.367	17.715	83.9	83.9
5 02/26/14	Berm-10N-125E	14B0788-05	Solid	ok	1	2/27/14	1.04	16.049	14.383	88.9	88.9
6 02/26/14	Berm-10N-135E	14B0788-06	Solid	ok	1	2/27/14	1.038	13.489	11.794	86.4	86.4
7 02/26/14	Berm-10N-145E	14B0788-07	Solid	ok	1	2/27/14	1.043	18.627	16.582	88.4	88.4
8 02/26/14	Berm-10N-155E	14B0788-08	Solid	ok	1	2/27/14	1.051	16.753	14.565	88.9	88.9
9 02/26/14	Berm-5N-122E	14B0788-09	Solid	ok	1	2/27/14	1.05	16.166	14.457	88.7	88.7
10 02/26/14	Berm-5N-127E	14B0788-10	Solid	ok	1	2/27/14	1.047	15.469	13.589	87.0	87
11 02/26/14	Berm-5N-132E	14B0788-11	Solid	ok	1	2/27/14	1.044	16.704	14.564	86.3	86.3
12 02/26/14	Berm-5N-137E	14B0788-12	Solid	ok	1	2/27/14	1.041	18.253	15.651	84.9	84.9
13 02/26/14	Berm-5N-142E	14B0788-13	Solid	ok	1	2/27/14	1.037	14.958	12.844	84.8	84.8
14 02/26/14	Berm-5N-147E	14B0788-14	Solid	ok	1	2/27/14	1.03	17.126	14.393	83.0	83
15 02/26/14	Berm-5N-152E	14B0788-15	Solid	ok	1	2/27/14	1.029	15.169	13.052	85.0	85
16 02/26/14	Berm-5N-157E	14B0788-16	Solid	ok	1	2/27/14	1.034	13.063	11.18	84.3	84.3
17 02/26/14	SLAB-5N-15E	14B0788-17	Solid	ok	1	2/27/14	1.04	13.704	11.074	79.2	79.2
18 02/26/14	SLAB-5N-25E	14B0788-18	Solid	ok	1	2/27/14	1.041	11.811	9.54	78.9	78.9
19 02/26/14	SLAB-5N-35E	14B0788-19	Solid	ok	1	2/27/14	1.05	13.497	11.741	85.9	85.9
20 02/26/14	SLAB-5N-45E	14B0788-20	Solid	ok	1	2/27/14	1.041	16.51	14.703	88.3	88.3
21 02/26/14	SLAB-15N-5E	14B0788-21	Solid	ok	1	2/27/14	1.043	14.753	13.407	90.2	90.2
22 02/26/14	SLAB-15N-15E	14B0788-22	Solid	ok	1	2/27/14	1.038	14.081	11.091	77.1	77.1
23 02/26/14	SLAB-15N-25E	14B0788-23	Solid	ok	1	2/27/14	1.078	11.15	8.929	78.1	78.1
24 02/26/14	SLAB-15N-35E	14B0788-24	Solid	ok	1	2/27/14	1.042	17.154	14.723	84.9	84.9
25 02/26/14	SLAB-15N-45E	14B0788-25	Solid	ok	1	2/27/14	1.04	17.345	14.174	80.6	80.6
26 02/26/14	SLAB-25N-5E	14B0788-26	Solid	ok	1	2/27/14	1.043	16.2	14.383	88.0	88
27 02/26/14	SLAB-25N-15E	14B0788-27	Solid	ok	1	2/27/14	1.048	14.845	13.423	89.7	89.7
28 02/26/14	SLAB-25N-20E	14B0788-28	Solid	ok	1	2/27/14	1.031	17.671	10.071	77.7	77.7
29 02/26/14	Sub Slab Pile 1N	14B0788-29	Solid	ok	1	2/27/14	1.043	15.466	13.36	85.4	85.4
30 02/26/14	Sub Slab Pile 1S	14B0788-30	Solid	ok	1	2/27/14	1.032	14.648	12.964	87.6	87.6

Sub Slab Pile 1S Berm 5N-152E Berm 0N-125E

Sample 87.6 85 84.2
Dup 88.1 86.3 85
RPD -0.569 -1.518 -0.946
RPD Rptd 0.569 1.52 0.946
RPD = ((1.05 - LC/Dry) * (1.05 - 1.02)) * 100

CON-TEST LABORATORY

PERCENT SOLIDS

562

analyst	TEMP IN: 104 °C	sample#	dish	dish&sample	time	date	sample	dried dish&sample	time	date	dried sample	% solid	
		B091039											
INI		SAMPLE #					0.0000				0.0000	#####	
AKS		14B0788-01	1.044	16.800	19:52	02/27/2014	15.7560	14.303	g	07:53	02/28/2014	13.2590	84.2
AKS		14B0788-02	1.036	12.987	19:54	02/27/2014	11.9510	11.353	g	07:53	02/28/2014	10.3170	86.3
AKS		14B0788-03	1.037	13.101	19:56	02/27/2014	12.0640	11.368	g	07:54	02/28/2014	10.3310	85.6
AKS		14B0788-04	1.034	14.367	19:57	02/27/2014	13.3330	12.215	g	07:54	02/28/2014	11.1810	83.9
AKS		14B0788-05	1.040	16.049	19:59	02/27/2014	15.0090	14.383	g	07:54	02/28/2014	13.3430	88.9
AKS		14B0788-06	1.038	13.489	20:00	02/27/2014	12.4510	11.794	g	07:54	02/28/2014	10.7560	86.4
AKS		14B0788-07	1.043	18.627	20:01	02/27/2014	17.5840	16.582	g	07:54	02/28/2014	15.5390	88.4
AKS		14B0788-08	1.051	16.253	20:02	02/27/2014	15.2020	14.565	g	07:54	02/28/2014	13.5140	88.9
AKS		14B0788-09	1.050	16.166	20:03	02/27/2014	15.1160	14.457	g	07:54	02/28/2014	13.4070	88.7
AKS		14B0788-10	1.047	15.469	20:04	02/27/2014	14.4220	13.589	g	07:54	02/28/2014	12.5420	87.0
AKS		14B0788-11	1.044	16.704	20:05	02/27/2014	15.6600	14.564	g	07:55	02/28/2014	13.5200	86.3
AKS		14B0788-12	1.041	18.253	20:07	02/27/2014	17.2120	15.651	g	07:55	02/28/2014	14.6100	84.9
AKS		14B0788-13	1.037	14.958	20:08	02/27/2014	13.9210	12.844	g	07:55	02/28/2014	11.8070	84.8
AKS		14B0788-14	1.030	17.126	20:09	02/27/2014	16.0960	14.393	g	07:55	02/28/2014	13.3630	83.0
AKS		14B0788-15	1.029	15.169	20:10	02/27/2014	14.1400	13.052	g	07:55	02/28/2014	12.0230	85.0
AKS		14B0788-16	1.034	13.063	20:12	02/27/2014	12.0290	11.180	g	07:55	02/28/2014	10.1460	84.3
AKS		14B0788-17	1.040	13.704	20:13	02/27/2014	12.6640	11.074	g	07:55	02/28/2014	10.0340	79.2
AKS		14B0788-18	1.041	11.811	20:14	02/27/2014	10.7700	9.540	g	07:55	02/28/2014	8.4990	78.9
AKS		14B0788-19	1.050	13.497	20:15	02/27/2014	12.4470	11.741	g	07:56	02/28/2014	10.6910	85.9
AKS		14B0788-20	1.041	16.510	20:16	02/27/2014	15.4690	14.703	g	07:56	02/28/2014	13.6620	88.3
AKS		14B0788-21	1.043	14.753	20:16	02/27/2014	13.7100	13.407	g	07:56	02/28/2014	12.3640	90.2
AKS		14B0788-22	1.038	14.081	20:17	02/27/2014	13.0430	11.091	g	07:56	02/28/2014	10.0530	77.1
AKS		14B0788-23	1.028	11.150	20:18	02/27/2014	10.1220	8.929	g	07:56	02/28/2014	7.9010	78.1
AKS		14B0788-24	1.042	17.154	20:20	02/27/2014	16.1120	14.723	g	07:56	02/28/2014	13.6810	84.9
AKS		14B0788-25	1.040	17.345	20:20	02/27/2014	16.3050	14.174	g	07:56	02/28/2014	13.1340	80.6
AKS		14B0788-26	1.043	16.200	20:21	02/27/2014	15.1570	14.383	g	07:56	02/28/2014	13.3400	88.0
AKS		14B0788-27	1.048	14.845	20:22	02/27/2014	13.7970	13.423	g	07:57	02/28/2014	12.3750	89.7
AKS		14B0788-28	1.031	12.671	20:23	02/27/2014	11.6400	10.071	g	07:57	02/28/2014	9.0400	77.7

CON-TEST LABORATORY

PERCENT SOLIDS

AKS	14B0788-29	1.043	g	15.466	g	20:24	02/27/2014	14.4230	13.360	g	07:58	02/28/2014	12.3170	85.4
AKS	14B0788-30	1.032	g	14.648	g	20:24	02/27/2014	13.6160	12.964	g	07:58	02/28/2014	11.9320	87.6
AKS	DUP1(14B0788-30)	1.038	g	15.789	g	20:25	02/27/2014	14.7510	14.034	g	07:58	02/28/2014	12.9960	88.1
AKS	DUP2(14B0788-15)	1.048	g	13.686	g	20:10	02/27/2014	12.6380	11.951	g	07:58	02/28/2014	10.9030	86.3
AKS	DUP3(14B0788-01)	1.036	g	16.040	g	19:55	02/27/2014	15.0040	13.792	g	07:58	02/28/2014	12.7560	85.0



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

DUPLICATES

Sub Slab Pile 1S

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0788
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Laboratory ID:	B091039-DUP1
Batch:	B091039	Initial/Final:	5 g / 5 g
Preparation:	% Solids	Analysis:	SM 2540G
% Solids:	87.60		

ANALYTE	SAMPLE CONCENTRATION (% Wt)	DUPLICATE CONCENTRATION (% Wt)	RPD %	Q	CONTROL LIMIT
% Solids	87.6	88.1	0.569		20



557

86

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

DUPLICATES

Berm-5N-152E

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0788
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Laboratory ID:	B091039-DUP2
Batch:	B091039	Initial/Final:	5 g / 5 g
Preparation:	% Solids	Analysis:	SM 2540G
% Solids:	85.00		

ANALYTE	SAMPLE CONCENTRATION (% Wt)	DUPLICATE CONCENTRATION (% Wt)	RPD %	Q	CONTROL LIMIT
% Solids	85.0	86.3	1.52		20



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

DUPLICATES

Berm-0N-125E

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0788
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Laboratory ID:	B091039-DUP3
Batch:	B091039	Initial/Final:	5 g / 5 g
Preparation:	% Solids	Analysis:	SM 2540G
% Solids:	84.20		

ANALYTE	SAMPLE CONCENTRATION (% Wt)	DUPLICATE CONCENTRATION (% Wt)	RPD %	Q	CONTROL LIMIT
% Solids	84.2	85.0	0.946		20

Calculations for PCUs RMQ

LCSH L&SD Lab Invo used for validation unless otherwise noted

Sample	UP-HIL2-B51	Compound	PCU 1160
	AMOUNT FOUND	AMOUNT SPIKED	%R FORM 3
LCS	5.14	0.2	71.8
WSD	0.18	0.2	9.0
RFF	2.58		27.0

Recovery = (Amount Found/Amount Spiked)*100
 RPD = ((LCS+LCSH)/LCSH)*100

MSMSD Lab Invo used for validation unless otherwise noted

Sample	SAKAS-27E	Compound	1160
	AMOUNT FOUND	AMOUNT SPIKED	%R FORM 3
RFS	3.0	0.222	105.1
WSD	4.8	0.722	1216.2
RPU	31.43		179.6

Recovery = (Amount Found/Amount Native/Amount Spiked)*100
 RPD = ((WSD+MSMSD)/MSMSD)*100

Calibration %CV Jms: 3.04 PCRs: 0.00 used for validation unless otherwise noted
 %SD(CV) 2.4% JRPC 11.99

Initial Calibration Calculation Check

Date	10/1/12	10/1/12	10/1/12
Injection	1	2	3
Compound	1160	1160	1160
Concn	1	2	3
Reported Average CF	4.50E-05	4.50E-05	4.50E-05
Calculated Average CF	4.6242E-05	4.6242E-05	4.6242E-05
Reported RSD	5.750	5.750	5.750
Calculated RSD	5.893	5.893	5.893
RFF	4.50E-05	4.50E-05	4.50E-05
RR1	4.50E-05	4.50E-05	4.50E-05
RR2	4.50E-05	4.50E-05	4.50E-05
RR3	4.50E-05	4.50E-05	4.50E-05
RR4	4.50E-05	4.50E-05	4.50E-05
RR5	4.50E-05	4.50E-05	4.50E-05
Sum	4.50E-05	4.50E-05	4.50E-05
Sum(Sq)	4.50E-05	4.50E-05	4.50E-05
Reported Amount	4.50E-05	4.50E-05	4.50E-05
Calculated Amount	4.6242E-05	4.6242E-05	4.6242E-05
Compound Area (A1)	4.50E-07	4.50E-07	4.50E-07
Compound Conc (C1)	1.00	1.00	1.00

Sample	Sub-Sub File ID
Lab ID 1401000-230	
Compound PCB 1248	
Final Results mg/kg 5.16	
Instrument ECD 3	
Col 1 8008972	Col 2 5303000
Peak 1 4.41E+05	10.3982
Peak 2 0	10.4058
Peak 3 6.75E+05	10.4204
CF 62.0345	10.4204
Peak 1 4.35E+05	10.4204
CF 2.72E+05	10.4204
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Peak 3 6.64E+05	10.42

2 - FORM II

SYSTEM MONITORING COMPOUND SUMMARY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	SDG:	14B0788
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Instrument:	ECD3

	DCB 1 (30% - 150%)	DCB 2 (30% - 150%)	TCX 1 (30% - 150%)	TCX 2 (30% - 150%)
14B0788-01	76.8	77.1	80.5	84.0
14B0788-02	87.8	93.7	91.4	86.3
14B0788-03	69.1	69.5	74.1	77.8
14B0788-04	69.2	70.1	71.8	75.3
14B0788-05	92.8	93.5	88.6	92.6
14B0788-06	80.1	80.9	81.4	84.9
14B0788-07	71.2	73.4	75.4	69.0
14B0788-08	82.8	82.8	75.5	80.0
14B0788-09	63.2	67.0	68.1	63.1
14B0788-10	84.4	86.3	87.9	81.0
14B0788-11	72.9	74.9	77.7	71.8
14B0788-12	93.1	92.5	88.3	92.4
14B0788-13	71.7	74.6	76.9	70.4
14B0788-14	53.2	55.1	58.0	52.8
14B0788-15	76.9	78.9	80.6	74.0
14B0788-16	61.7	62.1	62.0	57.1
14B0788-17	63.4	65.0	72.9	76.2
14B0788-18	81.1	83.5	85.7	87.5
14B0788-19	60.7	63.8	65.4	61.8
14B0788-20	74.5	80.2	95.2	88.0
B091012-BLK1	91.0	90.8	99.9	103
B091012-BS1	64.5	66.4	71.3	74.3
B091012-BSD1	80.3	82.2	83.1	88.1
B091012-MS1	76.2	76.3	71.6	75.1
B091012-MSD1	79.3	80.0	81.4	84.7

2 - FORM II

SYSTEM MONITORING COMPOUND SUMMARY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	SDG:	14B0788
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Instrument:	ECD3

	DCB 1 (30% - 150%)	DCB 2 (30% - 150%)	TCX 1 (30% - 150%)	TCX 2 (30% - 150%)
14B0788-21	90.6	94.3	92.4	84.5
14B0788-22	62.2	70.9	81.9	78.1
14B0788-23	66.2	72.0	78.9	74.9
14B0788-24	40.8	45.7	50.0	46.3
14B0788-25	59.7	65.6	77.5	72.4
14B0788-26	46.5	51.5	69.8	65.6
14B0788-27	35.8	38.1	41.2	38.0
14B0788-28	57.6	61.8	78.4	73.9
14B0788-29	*	*	*	*
14B0788-30	87.6	90.5	94.8	86.6
B091013-BLK1	84.3	82.2	91.5	86.7
B091013-BS1	73.8	68.5	80.3	73.5
B091013-BSD1	74.3	70.0	79.1	72.4
B091013-MS1	45.3	50.0	53.3	50.4
B091013-MSD1	57.8	63.3	66.1	61.7

50X

Data Path : C:\msdchem\1\data\022714\
 Data File : 10227036.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Feb 2014 10:40 pm
 Operator : JMB
 Sample : 14B0786-04 Inst : ECD 9
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: 9-1260.E
 Quant Time: Feb 28 04:53:14 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\9-1260-022014C.M
 Quant Title : 1260/1016 02/20/14 12/05/13
 QLast Update : Fri Feb 21 09:11:02 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.880	3.280	3179.6E6	1542.5E6	143.535	150.679
Spiked Amount	200.000		Recovery		71.77%	75.34%
2) S Decachlor...	6.957	7.608	2608.2E6	1194.8E6	138.402	140.185
Spiked Amount	200.000		Recovery	=	69.20%	70.09%
Target Compounds						
3) L1 1016(1)	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016(2)	3.783	4.372f	1351607	667015	1.434	1.481
5) L1 1016(3)	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016(4)	3.931	0.000	1510903	0	3.703	N.D. #
7) L1 1016(5)	4.195	0.000	480193	0	0.924	N.D. #
Sum 1016			3342703	667015	6.060	1.481
Average 1016					2.020	1.481
8) L7 1260(1)	5.140	5.915	119.6E6	60450510	118.607	110.973
9) L7 1260(2)	5.360	6.069	195.4E6	79468950	123.615	122.878
10) L7 1260(3)	5.676	6.389	163.0E6	75005994	173.396	153.118
11) L7 1260(4)	5.873	6.585	155.5E6	77684495	150.221	140.159
12) L7 1260(5)	6.103	6.733	322.9E6	162.0E6	140.524	141.342
Sum 1260			956.4E6	454.7E6	706.363	668.670
Average 1260					141.273	133.734

(f)=RT Delta > 1/2 Window (#)=Amounts differ by : 25% (m)=manual int.

CHECKED BY:
 John Beane
 FEB 28 2014

Data Path : C:\msdchem\1\data\022714A\
 Data File : C0227049.d
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 28 Feb 2014 7:40 am
 Operator : JMB
 Sample : 1480788-15010X Inst : DUAL ECD3
 Misc :
 ALS Vial : 49 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: FRONT-1016.E
 Integration File signal 2: 1016-BACK.E
 Quant Time: Feb 28 08:51:27 2014
 Quant Method : C:\msdchem\1\methods\3-1260-022714.M
 Quant Title : 1260/1016 01/07/14 12/05/13
 QLast Update : Wed Jan 08 12:48:21 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S TCMX - SU...	3.162	3.527	297.2E6	192.5E6	16.120	14.805
2) S DCB - SUR...	7.229	7.885	214.2E6	143.3E6	15.381	15.771
Target Compounds						
3) L1 1016	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016 - {2}	0.000	4.665	0	1813303	N.D.	3.372 #
5) L1 1016 - {3}	4.102	0.000	1441209	0	1.651	N.D. #
6) L1 1016 - {4}	0.000	0.000	0	0	N.D.	N.D.
7) L1 1016 - {5}	4.526	0.000	870096	0	1.841	N.D. #
Sum 1016			2311305	1813303	3.492	3.372
Average 1016					1.746	3.372
8) L7 1260	5.383	6.187	65413418	98698269	144.030	181.195 #
9) L7 1260 - {2}	5.719	6.327	252.3E6	111.5E6	185.982	174.612
10) L7 1260 - {3}	6.027	6.626	160.2E6	83368196	194.577	172.321
11) L7 1260 - {4}	6.206	6.813	149.1E6	94342827	172.281	178.907
12) L7 1260 - {5}	6.416	6.952	343.3E6	217.0E6	190.289	203.571
Sum 1260			970.4E6	605.0E6	886.258	915.606
Average 1260					177.252	183.121

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:
 John Beers
 FEB 28 2014

97

Data Path : C:\msdchem\1\data\022714A\
 Data File : C0227041.d
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 28 Feb 2014 5:56 am
 Operator : JMB
 Sample : 14B0788-30@10X Inst : DUAL ECD3
 Misc :
 ALS Vial : 41 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: F-1248.E
 Integration File signal 2: B-1248.E
 Quant Time: Feb 28 09:38:24 2014
 Quant Method : C:\msdchem\1\methods\3-1248-022714.M
 Quant Title : 1248 12/19/13 08/29/13
 QLast Update : Thu Feb 27 17:24:33 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) S TCMX - SU...	3.162	3.525	349.7E6	225.3E6	18.966	17.328
2) S PCB - SUR...	7.229	7.885	244.1E6	164.4E6	17.525	16.093
Target Compounds						
3) L5 1248	4.102	4.935	8560874	5301690	19.399	17.610
4) L5 1248 - (2)	0.000	5.165	0	3949454	N.D. d	10.207 #
5) L5 1248 - (3)	4.526	0.000	6001645	0	13.683	N.D. d#
6) L5 1248 - (4)	4.859	5.475	7899086	4743210	10.141	10.051
7) L5 1248 - (5)	4.882	5.716	7356895	8100085	11.016	17.807 #
Sum 1248			29818700	22094439	54.238	55.705
Average 1248					13.559	13.926

{f}=RT Delta > 1/2 Window {#}=Amounts differ by > 25% {m}=manual int.

CHECKED BY:
 John Beane FEB 28 2014



422

98

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Berm-0N-125E

SW-846 8082A

Lab Sample ID: 1480788-01 Date(s) Analyzed: 02/27/2014 02/27/2014
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.057	
	2	0.00	0.00	0.00	0.057	0.2

✓



49

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***Berm-ON-135E**

Lab Sample ID: 14B0788-02 Date(s) Analyzed: 02/28/2014 02/28/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.39	
	2	0.00	0.00	0.00	0.40	1.8



424

100

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Berm-0N-145E***SW-846 8082A*

Lab Sample ID: 14B0788-03 Date(s) Analyzed: 02/27/2014 02/27/2014
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.035	
	2	0.00	0.00	0.00	0.036	3.4



425

101

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***Bern-0N-155E**

Lab Sample ID: 14B0788-04 Date(s) Analyzed: 02/27/2014 02/27/2014
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.16	
	2	0.00	0.00	0.00	0.15	8.3

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426

102

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Berm-10N-125E***SW-846 8082A*

Lab Sample ID: 14B0788-05 Date(s) Analyzed: 02/27/2014 02/27/2014
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.034	...
	2	0.00	0.00	0.00	0.036	5.1



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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Berm-10N-145E

Lab Sample ID: 14B0788-07 Date(s) Analyzed: 02/28/2014 02/28/2014
 Instrument ID (1): ECD3 Instrument ID (2): ECD3
 GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.50	
	2	0.00	0.00	0.00	0.56	11.9

✓



428

104

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

Berm-5N-122E

Lab Sample ID: 14B0788-09 Date(s) Analyzed: 02/28/2014 02/28/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.34	
	2	0.00	0.00	0.00	0.38	10.5



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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Berm-5N-127E

Lab Sample ID: 1480788-10 Date(s) Analyzed: 02/28/2014 02/28/2014
 Instrument ID (1): ECD3 Instrument ID (2): ECD3
 GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1250	1	0.00	0.00	0.00	1.1	
	2	0.00	0.00	0.00	1.1	4.7



430

106

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Berm-5N-132E***SW-846 8082A*

Lab Sample ID: 1480788-11 Date(s) Analyzed: 02/28/2014 02/28/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
<u>Aroclor-1260</u>	<u>1</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>1.2</u>	
	<u>2</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>1.2</u>	<u>2.5</u>



431

107

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

Berm-5N-137E

Lab Sample ID: 1480788-12 Date(s) Analyzed: 02/28/2014 02/28/2014
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.018	
	2	0.00	0.00	0.00	0.019	4.3



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432

108

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Bern-5N-142E

SW-846 8082A

Lab Sample ID: 14B0788-13 Date(s) Analyzed: 02/28/2014 02/28/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	<u>1</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.82</u>	
	<u>2</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.89</u>	<u>8.2</u>



433

109

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Berm-5N-147E***SW-846 8082A*

Lab Sample ID: 14B0788-14 Date(s) Analyzed: 02/28/2014 02/28/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.52	
	2	0.00	0.00	0.00	0.55	5.2



434

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Berm-5N-152E***SW-846 8082A*

Lab Sample ID: 14B0788-15 Date(s) Analyzed: 02/28/2014 02/28/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	2.0	
	2	0.00	0.00	0.00	2.1	3.9



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Berm-5N-157E***SW-846 8082A*

Lab Sample ID: 14B0788-16 Date(s) Analyzed: 02/28/2014 02/28/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	<u>1</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>1.7</u>	
	<u>2</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>1.8</u>	<u>5.7</u>



436

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Berm-5N-25E***SW-846 8082A*

Lab Sample ID: 14B0788-18 Date(s) Analyzed: 02/28/2014 02/28/2014
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.017	
	2	0.00	0.00	0.00	0.017	1.2



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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Barn-5N-35E

Lab Sample ID: 14B0788-19 Date(s) Analyzed: 02/28/2014 02/28/2014
 Instrument ID (1): ECD3 Instrument ID (2): ECD3
 GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	0.038	
	2	0.00	0.00	0.00	0.038	0.0
Aroclor-1260	1	0.00	0.00	0.00	0.43	
	2	0.00	0.00	0.00	0.44	3.2

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438

114

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

Berm-5N-45E

Lab Sample ID: 14B0788-20 Date(s) Analyzed: 02/28/2014 02/28/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	1.8	
	2	0.00	0.00	0.00	1.7	3.5



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443

115

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

Berm-15N-5E

Lab Sample ID: 14B0788-21 Date(s) Analyzed: 02/28/2014 02/28/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.64	
	2	0.00	0.00	0.00	0.75	15.8



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444

116

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

Bem-15N-15E

Lab Sample ID: 14B0788-22 Date(s) Analyzed: 02/27/2014 02/27/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.057	
	2	0.00	0.00	0.00	0.062	8.2



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445

117

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

Bern-15N-25E

Lab Sample ID: 14B0788-23 Date(s) Analyzed: 02/27/2014 02/27/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.077	
	2	0.00	0.00	0.00	0.094	20.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Berm-15N-35E

Lab Sample ID: 14B0788-24 Date(s) Analyzed: 02/27/2014 02/27/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	0.038	
	2	0.00	0.00	0.00	0.031	19.2
Aroclor-1260	1	0.00	0.00	0.00	0.20	
	2	0.00	0.00	0.00	0.21	4.9

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Berm-15N-45E

Lab Sample ID: 14B0788-25 Date(s) Analyzed: 02/27/2014 02/27/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.054	
	2	0.00	0.00	0.00	0.065	18.5



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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Berm-25N-5E

Lab Sample ID: 14B0788-26 Date(s) Analyzed: 02/27/2014 02/27/2014
 Instrument ID (1): ECD3 Instrument ID (2): ECD3
 GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.097	
	2	0.00	0.00	0.00	0.10	2.6



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449

121

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

Bern-25N-15E

Lab Sample ID: 14B0788-27 Date(s) Analyzed: 02/27/2014 02/27/2014
Instrument ID (1): ECO3 Instrument ID (2): ECO3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.011	
	2	0.00	0.00	0.00	0.013	14.0



450

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***Berm-20N-20E**

Lab Sample ID: 14B0788-28 Date(s) Analyzed: 02/27/2014 02/27/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.020	
	2	0.00	0.00	0.00	0.023	12.5



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451

123

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

Sub Slab Pile 1N

Lab Sample ID: 14B0788-29 Date(s) Analyzed: 02/28/2014 02/28/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	5.9	
	2	0.00	0.00	0.00	6.1	3.5



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Sub Slab Pile 1S***SW-846 8082A*

Lab Sample ID: 1480788-30 Date(s) Analyzed: 02/28/2014 02/28/2014
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): CLPesticide 1 ID: 0.32 (mm) GC Column (2): CLPesticide 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	0.15	
	2	0.00	0.00	0.00	0.16	5.1
Aroclor-1260	1	0.00	0.00	0.00	2.3	
	2	0.00	0.00	0.00	2.2	2.7

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SLAB-5N-45E

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0788
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Analysis:	SW-846 8082A
Batch:	B091012	Preparation:	SW-846 3546
% Solids:	88.30	Laboratory ID:	B091012-MS1
Initial/Final:	10.2 g / 10 mL	Sample Lab ID:	14B0788-20
Column:	1		

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016	0.222	ND	0.17	77.2	40 - 140
Aroclor-1260	0.222	1.8	2.8	467	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	REC.
Aroclor-1016	0.222	0.19	83.7	8.11	30	40 - 140
Aroclor-1260	0.222	4.7	1320	50.7	30	40 - 140

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SLAB-5N-45E

Laboratory: Con-Test Analytical Laboratory
 Client: WSP
 Matrix: Soil
 Batch: B091012
 % Solids: 88.30
 Initial/Final: 10.2 g / 10 mL
 Column: 2

Work Order: 14B0788
 Project: 5140 Site - Yorkville, NY-PCB
 Analysis: SW-846 8082A
 Preparation: SW-846 3546
 Laboratory ID: B091012-MS1
 Sample Lab ID: 14B0788-20

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	0.222	ND	0.18	81.8	40 - 140
Aroclor-1260 [2C]	0.222	1.7	2.6	395	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	REC.
Aroclor-1016 [2C]	0.222	0.20	89.9	9.43	30	40 - 140
Aroclor-1260 [2C]	0.222	4.4	1190	50.5	30	40 - 140



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475

127

1 - FORM I ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Con-Test Analytical Laboratory Work Order 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091012-MS1 File ID: 10227055.d
Sampled: Prepared: 02/27/14 11:37 Analyzed: 02/28/14 04:07
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091012 Sequence: S005587 Calibration: 1400043 Instrument: ECD 9
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.17	0.0069	0.022	
11096-82-5	Aroclor-1260	2.8	0.011	0.022	MS-19, R-06

1 - FORM I

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091012-MS1 File ID: I0227055.d
Sampled: Prepared: 02/27/14 11:37 Analyzed: 02/28/14 04:07
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091012 Sequence: S005587 Calibration: 1400043 Instrument: ECD 9
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.18	0.0069	0.022	
11096-82-5	Aroclor-1260 [2C]	2.6	0.011	0.022	MS-19, R-06

Data Path : C:\msdchem\1\data\022714\
 Data File : I0227055.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Feb 2014 4:07 am
 Operator : JMB
 Sample : S091012-MS1 Inst : ECD 9
 Misc :
 ALS Val : 55 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Feb 28 04:54:11 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\9-1260-022014C.M
 Quant Title : 1260/1016 02/28/14 12/05/13
 QLast Update : Fri Feb 21 09:11:02 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.880	3.279	3173.1E6	1537.7E6	143.242	150.212 "
Spiked Amount	200.000		Recovery	=	71.62%	75.11%
2) S Decachlor...	6.957	7.607	2871.0E6	1300.9E6	152.350	152.628
Spiked Amount	200.000		Recovery	=	76.17%	76.31%
Target Compounds						
3) L1 1016{1}	3.428	4.218	113.3E6	23381111	141.681	154.862
4) L1 1016{2}	3.784	4.388	148.3E6	74650778	157.240	165.759
5) L1 1016{3}	3.883	4.497	104.5E6	49314243	152.031	162.187
6) L1 1016{4}	3.931	4.583	63059811	30045754	154.531	160.887
7) L1 1016{5}	4.193	4.878	86260085	44435184	166.024	174.139
Sum 1016			515.4E6	221.8E6	771.506	817.834
Average 1016					154.301	163.567
8) L7 1260{1}	5.139	5.914	2509.7E6	1296.6E6	2489.226	2390.282
9) L7 1260{2}	5.360	6.068	4216.1E6	1597.1E6	2667.258	2469.555
10) L7 1260{3}	5.675	6.388	2249.2E6	1074.4E6	2392.993	2193.360
11) L7 1260{4}	5.873	6.584	2504.1E6	1252.1E6	2418.753	2259.145
12) L7 1260{5}	6.102	6.731	6047.7E6	2834.2E6	2632.114	2475.587
Sum 1260			17526.8E6	8054.6E6	12599.363	11777.929
Average 1260					2519.869	2355.586

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual act.

$$\frac{2519 \times 10}{10.2 \times .883} \times 100 = 279$$

CHECKED BY:
John Beers

FEB 28 2014

1 - FORM I

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0788
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: B091012-MSD1 File ID: 10227056.d
 Sampled: Prepared: 02/27/14 11:37 Analyzed: 02/28/14 04:24
 Solids: Preparation: SW-846 3546 Dilution:
 Batch: B091012 Sequence: S005587 Calibration: 1400043 Instrument: ECD 9
 Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.19	0.0069	0.022	
11096-82-5	Aroclor-1260	4.7	0.011	0.022	R-06, MS-19



484

131

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**1 - FORM I
ANALYSIS DATA SHEET****Matrix Spike Dup**

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091012-MSD1 File ID: 10227056.d
Sampled: Prepared: 02/27/14 11:37 Analyzed: 02/28/14 04:24
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091012 Sequence: S005587 Calibration: 1400043 Instrument: ECD 9
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.20	0.0069	0.022	
11096-82-5	Aroclor-1260 [2C]	4.4	0.011	0.022	R-06, MS-19

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Sub Slab Pile 1S

Laboratory	Con-Test Analytical Laboratory	Work Order	1480788
Client	WSP	Project	5140 Site - Yorkville, NY-PCB
Matrix	Soil	Analysis	SW-846 8082A
Batch	B091013	Preparation	SW-846 3546
% Solids	87.60	Laboratory ID	B091013-MS1
Initial/Final	10.3 g / 10 mL	Sample Lab ID	1480788-30
Column	1		

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016	0.222	ND	0.18	82.7	40 - 140
Aroclor-1260	0.222	2.3	5.9	1630	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	RPD	QC LIMITS REC.
Aroclor-1016	0.224	0.19	85.7	4.46	30	40 - 140
Aroclor-1260	0.224	1.5	339	119	30	40 - 140

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Sub Slab Pile 1S

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0788
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Analysis:	SW-846 8082A
Batch:	B091013	Preparation:	SW-846 3546
% Solids:	87.60	Laboratory ID:	B091013-MS1
Initial/Final:	10.3 g / 10 mL	Sample Lab ID:	14B0788-30
Column:	2		

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	0.222	ND	0.18	80.0	40 - 140
Aroclor-1260 [2C]	0.222	2.2	6.7	2000	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Aroclor-1016 [2C]	0.224	0.19	83.6	5.48	30	40 - 140
Aroclor-1260 [2C]	0.224	1.6	274	123	30	40 - 140



505

134

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**1 - FORM I
ANALYSIS DATA SHEET****Matrix Spike**

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091013-MS1 File ID: C0227031 d
Sampled: Prepared: 02/27/14 11:41 Analyzed: 02/28/14 01:03
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091013 Sequence: S005588 Calibration: 1400032 Instrument: ECD3
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.18	0.0069	0.022	
11096-82-5	Aroclor-1260	5.9	0.011	0.022	MS-19, R-06

Data Path : C:\msdchem\1\data\022714A\
 Data File : 0227031.d
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 28 Feb 2014 1:03 am
 Operator : JMB
 Sample : BD91013-MS1 Inst : DUAL ECD3
 Misc :
 ALS Vial : 31 (Sig #1); 3 (Sig #2) Sample Multiplier: 1

Integration File signal 1: FRONT-1016.E
 Integration File signal 2: 1016-BACK.E
 Quant Time: Feb 28 04:31:49 2014
 Quant Method : C:\msdchem\1\methods\3-1260-022714.M
 Quant Title : 1260/1016 01/07/14 12/05/13
 QLast Update : Wed Jan 08 12:46:21 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S TCMX - SU...	3.163	3.527	1963.8E6	1309.5E6	106.515	100.719
2) S DCB - SUR...	7.231	7.868	1260.3E6	908.0E6	90.502	99.931
Target Compounds						
3) L1 1016	3.735	4.495	107.1E6	27740457	148.608	142.050
4) L1 1016 - (2)	3.898	4.666	43667593	95304082	154.063	177.201
5) L1 1016 - (3)	4.102	4.778	154.7E6	54281511	177.255	143.808
6) L1 1016 - (4)	4.256	4.966	61047638	38143320	162.528	158.421
7) L1 1016 - (5)	4.526	5.167	87472199	54833864	185.033	178.063
Sum 1016			454.0E6	270.3E6	827.488	799.542
Average 1016					165.498	159.908
8) L7 1260	5.385	6.188	2307.9E6	3573.2E6	5081.451	6559.864 #
9) L7 1260 - (2)	5.721	6.329	9829.7E6	4319.5E6	6476.019	6762.408
10) L7 1260 - (3)	6.029	6.628	3908.9E6	2223.2E6	4748.499	4595.335
11) L7 1260 - (4)	6.209	6.815	4035.9E6	2929.1E6	4662.529	5554.544
12) L7 1260 - (5)	6.419	6.954	9998.9E6	6820.0E6	5541.622	6554.775
Sum 1260			29081.2E6	19865.0E6	26510.119	30026.925
Average 1260					5302.024	6005.388

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25. (a)=manual int.

CHECKED BY:
John Beane

FEB 28 2014

CHECKED BY:
John Beane

FEB 28 2014

1 - FORM I

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091013-MS1 File ID: C0227031.d
Sampled: Prepared: 02/27/14 11:41 Analyzed: 02/28/14 01:03
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091013 Sequence: S005588 Calibration: 1400032 Instrument: ECD3
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.18	0.0069	0.022	
11096-82-5	Aroclor-1260 [2C]	6.7	0.011	0.022	MS-19, R-06

1 - FORM I

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091013-MSD1 File ID: C0227032.d
Sampled: Prepared: 02/27/14 11:41 Analyzed: 02/28/14 01:16
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091013 Sequence: S005588 Calibration: 1400032 Instrument: ECD3
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.19	0.0069	0.022	
11096-82-5	Aroclor-1260	1.5	0.011	0.022	R-06, MS-19

1 - FORM I

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091013-MSD1 File ID: C0227032.d
Sampled: Prepared: 02/27/14 11:41 Analyzed: 02/28/14 01:16
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091013 Sequence: S005588 Calibration: 1400032 Instrument: ECD3
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.19	0.0069	0.022	
11096-82-5	Aroclor-1260 [2C]	1.6	0.011	0.022	R-06, MS-19

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory

Work Order: 14B0788

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Preparation: SW-846 3546

Batch: B091012

Laboratory ID: B091012-BS1

Column: 1

Initial/Final: 10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	0.200	0.15	75.8	40 - 140
Aroclor-1260	0.200	0.14	71.8	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	RPD	QC LIMITS REC.
Aroclor-1016	0.200	0.18	92.0	19.3	30	40 - 140
Aroclor-1260	0.200	0.18	87.9	20.1	30	40 - 140

✓

✓

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	1460788
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B091012	Laboratory ID:	B091012-BS1
Column:	2	Initial/Final:	10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	0.200	0.16	78.9	40 - 140
Aroclor-1260 [2C]	0.200	0.14	68.9 ✓	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016 [2C]	0.200	0.19	96.4	20.0	30	40 - 140
Aroclor-1260 [2C]	0.200	0.17	83.1 ✓	18.8 ✓	30	40 - 140



463

141

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**1 - FORM I
ANALYSIS DATA SHEET**

LCS

Laboratory: Con-Test Analytical Laboratory Work Order: 1480788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091012-BS1 File ID: 10227031.d
Sampled: Prepared: 02/27/14 11:37 Analyzed: 02/27/14 21:33
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091012 Sequence: S005587 Calibration: 1400043 Instrument: ECD 9
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.15	0.031	0.10	
11096-82-5	Aroclor-1260	0.14	0.048	0.10	



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**1 - FORM I
ANALYSIS DATA SHEET****LCS**

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091012-BS1 File ID: 10227031.d
Sampled: Prepared: 02/27/14 11:37 Analyzed: 02/27/14 21:33
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091012 Sequence: S005587 Calibration: 1400043 Instrument: ECD 9
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.16	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.14	0.048	0.10	



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469

143

1 - FORM I ANALYSIS DATA SHEET

LCS Dup

Laboratory: Con-Test Analytical Laboratory
Client: WSP
Matrix: Soil
Sampled:
Solids:
Batch: B091012
Column: 1
Project: 5140 Site - Yorkville, NY-PCB
Laboratory ID: B091012-BSD1
Prepared: 02/27/14 11:37
Preparation: SW-846 3546
Sequence: S005587
Calibration: 1400043
Work Order: 1480788
File ID: 10227032.d
Analyzed: 02/27/14 21:46
Dilution:
Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.18	0.031	0.10	
11096-82-5	Aroclor-1260	0.18	0.048	0.10	

144

472



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1 - FORM I
ANALYSIS DATA SHEET

LCS Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091012-BSD1 File ID: I0227032.d
Sampled: Prepared: 02/27/14 11:37 Analyzed: 02/27/14 21:46
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091012 Sequence: S005587 Calibration: 1400043 Instrument: ECD 9
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.19	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.17	0.048	0.10	

11/5

Data Path : C:\msdchem\1\data\022714\
 Data File : 10227032.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Feb 2014 9:46 pm
 Operator : JMB
 Sample : B091C12-BSD105X Inst : ECD 9
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Feb 28 04:53:02 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\9-1260-022014C.M
 Quant Title : 1260/1016 02/20/14 12/05/13
 QLast Update : Fri Feb 21 09:11:02 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase :
 Signal #1 Info :
 Signal #2 Phase :
 Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachloro...	2.881	3.279	736.5E6	360.6E6	33.247	33.227
Spiked Amount	200.000		Recovery	=	16.62%	17.61%
2) S Decachloro...	6.959	7.608	605.3E6	280.2E6	32.128	32.873
Spiked Amount	200.000		Recovery	=	16.06%	16.44%
Target Compounds						
3) L1 1016(1)	3.430	4.219	29241662	6004962	36.571	39.773
4) L1 1016(2)	3.786	4.389	33969122	17353057	36.027	36.532
5) L1 1016(3)	3.886	4.498	25450493	11450698	37.025	37.660
6) L1 1016(4)	3.933	4.583	15011394	7039258	36.786	37.693
7) L1 1016(5)	4.195	4.876	19525829	10002544	37.581	39.199
Sum 1016			123.2E6	51850509	183.991	192.857
Average 1016					36.798	39.571
8) L7 1260(1)	5.142	5.925	37445855	19086623	37.126	33.038
9) L7 1260(2)	5.363	6.069	55845888	22568162	35.530	34.896
10) L7 1260(3)	5.678	6.389	33753137	16587523	35.911	33.362
11) L7 1260(4)	5.876	6.595	36323358	17602181	35.086	31.758
12) L7 1260(5)	6.106	6.733	74501295	35127829	32.425	30.683
Sum 1260			237.9E6	111.0E6	175.877	156.237
Average 1260					35.175	33.247

(f)-RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:
 John Beane
 FEB 28 2014

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory

Work Order: 14B0788

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Preparation: SW-846 3546

Batch: B091013

Laboratory ID: B091013-BS1

Column: 1

Initial/Final: 10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	0.200	0.17	83.2	40 - 140
Aroclor-1260	0.200	0.16	81.5 /	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016	0.200	0.17	87.0	4.46	30	40 - 140
Aroclor-1260	0.200	0.17	85.2	4.55	30	40 - 140



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3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory

Work Order: 14B0788

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Preparation: SW-846 3546

Batch: B091013

Laboratory ID: B091013-BS1

Column: 2

Initial/Final: 10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	0.200	0.17	85.6	40 - 140
Aroclor-1260 [2C]	0.200	0.16	78.1	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	RPD	QC LIMITS REC.
Aroclor-1016 [2C]	0.200	0.18	91.0	4.98	30	40 - 140
Aroclor-1260 [2C]	0.200	0.16	81.5	4.30	30	40 - 140



493

148

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**1 - FORM I
ANALYSIS DATA SHEET****LCS**

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091013-BS1 File ID: C0227013.d
Sampled: Prepared: 02/27/14 11:41 Analyzed: 02/27/14 21:11
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091013 Sequence: S005588 Calibration: 1400032 Instrument: ECD3
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.17	0.031	0.10	
11096-82-5	Aroclor-1260	0.16	0.048	0.10	



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**1 - FORM I
ANALYSIS DATA SHEET**

LCS

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091013-BS1 File ID: C0227013.d
Sampled: Prepared: 02/27/14 11:41 Analyzed: 02/27/14 21:11
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091013 Sequence: S005588 Calibration: 1400032 Instrument: ECD3
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.17	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.16	0.048	0.10	



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**1 - FORM I
ANALYSIS DATA SHEET**

LCS Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091013-BSD1 File ID: C0227014.d
Sampled: Prepared: 02/27/14 11:41 Analyzed: 02/27/14 21:24
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091013 Sequence: S005588 Calibration: 1400032 Instrument: ECD3
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.17	0.031	0.10	
11096-82-5	Aroclor-1260	0.17	0.048	0.10	



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**1 - FORM I
ANALYSIS DATA SHEET**

LCS Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091013-BSD1 File ID: C0227014.d
Sampled: Prepared: 02/27/14 11:41 Analyzed: 02/27/14 21:24
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091013 Sequence: S005588 Calibration: 1400032 Instrument: ECD3
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.18	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.16	0.048	0.10	

4 - FORM IV METHOD BLANK SUMMARY

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Blank ID: B091012-BLK1 Batch: B091012 Prepared: 02/27/2014 11:37

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
Berm-5N-142E	14B0788-13	C0227047.d	07:14
Berm-0N-135E	14B0788-02	C0227042.d	06:09
Berm-0N-145E	14B0788-03	I0227035.d	22:23
Berm-0N-155E	14B0788-04	I0227036.d	22:40
Berm-10N-125E	14B0788-05	I0227037.d	22:58
Berm-10N-135E	14B0788-06	I0227038.d	23:15
Berm-10N-145E	14B0788-07	C0227043.d	06:22
Berm-10N-155E	14B0788-08	I0227040.d	23:50
Berm-5N-122E	14B0788-09	C0227044.d	06:35
Berm-5N-127E	14B0788-10	C0227045.d	06:48
Berm-0N-125E	14B0788-01	I0227033.d	21:58
Berm-5N-137E	14B0788-12	I0227046.d	01:30
Matrix Spike Dup	B091012-MSD1	I0227056.d	04:24
Berm-5N-147E	14B0788-14	C0227048.d	07:27
Berm-5N-152E	14B0788-15	C0227049.d	07:40
Berm-5N-157E	14B0788-16	C0227063.d	10:42
Berm-5N-15E	14B0788-17	I0227051.d	02:57
Berm-5N-25E	14B0788-18	I0227052.d	03:15
Berm-5N-35E	14B0788-19	C0227050.d	07:53
Berm-5N-45E	14B0788-20	C0227062.d	10:29
LCS	B091012-BS1	I0227031.d	21:33
LCS Dup	B091012-BSD1	I0227032.d	21:46
Matrix Spike	B091012-MS1	I0227055.d	04:07
Berm-5N-132E	14B0788-11	C0227046.d	07:01



457

153

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**1 - FORM I
ANALYSIS DATA SHEET**

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091012-BLK1 File ID: 10227030.d
Sampled: Prepared: 02/27/14 11:37 Analyzed: 02/27/14 21 21
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091012 Sequence: S005587 Calibration: 1400043 Instrument: ECD 9
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0062	0.020	
11104-28-2	Aroclor-1221		0.020	0.020	
11141-16-5	Aroclor-1232		0.012	0.020	
53469-21-9	Aroclor-1242		0.010	0.020	
12672-29-6	Aroclor-1248		0.012	0.020	
11097-69-1	Aroclor-1254		0.0086	0.020	
11096-82-5	Aroclor-1260		0.0096	0.020	
37324-23-5	Aroclor-1262		0.0082	0.020	
11100-14-4	Aroclor-1268		0.012	0.020	



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460

154

1 - FORM I ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091012-BLK1 File ID: 10227030.d
Sampled: Prepared: 02/27/14 11:37 Analyzed: 02/27/14 21:21
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091012 Sequence: S005587 Calibration: 1400043 Instrument: ECD 9
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]		0.0062	0.020	
11104-28-2	Aroclor-1221 [2C]		0.020	0.020	
11141-16-5	Aroclor-1232 [2C]		0.012	0.020	
53469-21-9	Aroclor-1242 [2C]		0.010	0.020	
12672-29-6	Aroclor-1248 [2C]		0.012	0.020	
11097-69-1	Aroclor-1254 [2C]		0.0086	0.020	
11096-82-5	Aroclor-1260 [2C]		0.0096	0.020	
37324-23-5	Aroclor-1262 [2C]		0.0082	0.020	
11100-14-4	Aroclor-1268 [2C]		0.012	0.020	

4 - FORM IV METHOD BLANK SUMMARY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0788
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Blank ID:	B091013-BLK1	Batch:	B091013
		Prepared:	02/27/2014 11:41

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
Matrix Spike Dup	B091013-MSD1	C0227032.d	01:16
Matrix Spike	B091013-MS1	C0227031.d	01:03
LCS Dup	B091013-BSD1	C0227014.d	21:24
LCS	B091013-BS1	C0227013.d	21:11
Sub Slab Pile 1S	14B0788-30	C0227041.d	05:56
Sub Slab Pile 1N	14B0788-29	C0227040.d	05:43
Berm-20N-20E	14B0788-28	C0227026.d	23:59
Berm-25N-15E	14B0788-27	C0227025.d	23:46
Berm-25N-5E	14B0788-26	C0227024.d	23:33
Berm-15N-45E	14B0788-25	C0227023.d	23:20
Berm-15N-35E	14B0788-24	C0227022.d	23:07
Berm-15N-25E	14B0788-23	C0227021.d	22:54
Berm-15N-15E	14B0788-22	C0227020.d	22:41
Berm-15N-5E	14B0788-21	C0227039.d	05:30



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487

156

1 - FORM I ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 1480788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091013-BLK1 File ID: C0227012.d
Sampled: Prepared: 02/27/14 11:41 Analyzed: 02/27/14 20:58
Solids: Preparation: SW-B46 3546 Dilution:
Batch: B091013 Sequence: S005588 Calibration: 1400032 Instrument: ECD3
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0062	0.020	
11104-28-2	Aroclor-1221		0.020	0.020	
11141-16-5	Aroclor-1232		0.012	0.020	
53469-21-9	Aroclor-1242		0.010	0.020	
12672-29-6	Aroclor-1248		0.012	0.020	
11097-69-1	Aroclor-1254		0.0086	0.020	
11096-82-5	Aroclor-1260		0.0096	0.020	
37324-23-5	Aroclor-1262		0.0082	0.020	
11100-14-4	Aroclor-1268		0.012	0.020	

✓



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490

157

1 - FORM I ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091013-BLK1 File ID: C0227012.d
Sampled: Prepared: 02/27/14 11:41 Analyzed: 02/27/14 20:58
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091013 Sequence: S005588 Calibration: 1400032 Instrument: ECD3
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]		0.0062	0.020	
11104-28-2	Aroclor-1221 [2C]		0.020	0.020	
11141-16-5	Aroclor-1232 [2C]		0.012	0.020	
53469-21-9	Aroclor-1242 [2C]		0.010	0.020	
12672-29-6	Aroclor-1248 [2C]		0.012	0.020	
11097-69-1	Aroclor-1254 [2C]		0.0086	0.020	
11096-82-5	Aroclor-1260 [2C]		0.0096	0.020	
37324-23-5	Aroclor-1262 [2C]		0.0082	0.020	
11100-14-4	Aroclor-1268 [2C]		0.012	0.020	

PREPARATION BENCH SHEET

517

B091012

Con-Test Analytical Laboratory

Printed: 3/14/2014 8:53:34AM

Matrix: Soil

Prepared using: SV-GC - SW-846 3546

Surrogate used: 1402192

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Location	Client	Extraction Comments
14B0788-01	8082	02/27/14	10.2	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-02	8082	02/27/14	10	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-03	8082	02/27/14	10.1	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-04	8082	02/27/14	10.3	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-05	8082	02/27/14	10.1	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-06	8082	02/27/14	10.1	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-07	8082	02/27/14	10.1	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-08	8082	02/27/14	10.3	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-09	8082	02/27/14	10	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-10	8082	02/27/14	10.3	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-11	8082	02/27/14	10.1	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-12	8082	02/27/14	10.2	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-13	8082	02/27/14	10.1	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-14	8082	02/27/14	10.2	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-15	8082	02/27/14	10.3	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-16	8082	02/27/14	10.3	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-17	8082	02/27/14	10.2	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-18	8082	02/27/14	10	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-19	8082	02/27/14	10.3	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-20	8082	02/27/14	10.2	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
R091012-BLK1	QC	02/27/14	10	10						
R091012-BS1	QC	02/27/14	10	10	1402138		1000			
B091012-BSDL	QC	02/27/14	10	10	1402138		1000			

Spiking Witnessed By

Date

Preparation Reviewed By

Date

Extractions Received By

Date

PREPARATION BENCH SHEET

518

B091012

Con-Test Analytical Laboratory

Printed: 3/14/2014 8:53:34AM

Matrix: Soil

Prepared using: SV-GC - SW-846 3546

Surrogate used: 1402192

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Location	Client	Extraction Comments
B091012-MS1	QC	02/27/14	10.2	10	1402138	14B0788-20	1000			
B091012-MSD1	QC	02/27/14	10.2	10	1402138	14B0788-20	1000			

Spiking Witnessed By

Date

Preparation Reviewed By

Date

Extracts Received By

Date

PREPARATION BENCH SHEET

519

B091013

Con-Test Analytical Laboratory

Printed: 3/14/2014 8:54:23AM

Matrix: Soil

Prepared using: SV-GC - SW-846 3546

Surrogate used: 1402192

Lab Number	Analysis	Prepared	Initial (g)	Final (ml)	Spike ID	Source ID	ul Spike	Location	Client	Extraction Comments
14B0779-01	8082	02/27/14	10	10				Walk in door 6		
14B0780-01	8082	02/27/14	10.1	10				Walk in door 6		
14B0780-02	8082	02/27/14	10.2	10				Walk in door 6		
14B0780-03	8082	02/27/14	10	10				Walk in door 6		
14B0788-21	8082	02/27/14	10.3	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-22	8082	02/27/14	10.3	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-23	8082	02/27/14	10	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-24	8082	02/27/14	10.2	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-25	8082	02/27/14	10.1	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-26	8082	02/27/14	10.2	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-27	8082	02/27/14	10.3	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-28	8082	02/27/14	10.3	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-29	8082	02/27/14	10.3	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14B0788-30	8082	02/27/14	10.2	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
B091013-BLK1	QC	02/27/14	10	10						
B091013-RS1	QC	02/27/14	10	10	1402138		1000			
B091013-BSD1	QC	02/27/14	10	10	1402138		1000			
B091013-MS1	QC	02/27/14	10.3	10	1402138	14B0788-30	1000			
B091013-MSD1	QC	02/27/14	10.2	10	1402138	14B0788-30	1000			

Spiking Witnessed By

Date

Preparation Reviewed By

Date

Extracts Received By

Date

Analysis Log

520

Date	Filename	Lab ID	Sample Info
27 Feb 2014	3:20 pm	I0227001.d	ISO
27 Feb 2014	3:32 pm	I0227002.d	ISO
27 Feb 2014	3:45 pm	I0227003.d	ISO
27 Feb 2014	3:57 pm	I0227004.d	1260/1016 100 1312043
27 Feb 2014	4:10 pm	I0227005.d	1254 100 1309167
27 Feb 2014	4:22 pm	I0227006.d	1248 100 1308296
27 Feb 2014	4:34 pm	I0227007.d	1242 100 1308268
27 Feb 2014	4:47 pm	I0227008.d	1232/1268 100 1312248
27 Feb 2014	4:59 pm	I0227009.d	1221/1262 100 1401037
27 Feb 2014	5:11 pm	I0227010.d	ISO
27 Feb 2014	5:24 pm	I0227011.d	B090836-BLK1@TBA
27 Feb 2014	5:36 pm	I0227012.d	B090836-BS1@TBA
27 Feb 2014	5:49 pm	I0227013.d	B090836-BSD1@TBA
27 Feb 2014	6:03 pm	I0227014.d	14B0626-03@TBA
27 Feb 2014	6:15 pm	I0227015.d	14B0605-04@20X
27 Feb 2014	6:28 pm	I0227016.d	14B0605-05@50X
27 Feb 2014	6:40 pm	I0227017.d	14B0605-06@100X
27 Feb 2014	6:52 pm	I0227018.d	ISO
27 Feb 2014	7:05 pm	I0227019.d	1260/1016 50
27 Feb 2014	7:17 pm	I0227020.d	B090940-BLK1@TBA
27 Feb 2014	7:29 pm	I0227021.d	B090940-BS1@5X TBA
27 Feb 2014	7:42 pm	I0227022.d	B090940-BSD1@5X TBA
27 Feb 2014	7:54 pm	I0227023.d	14B0749-01@5X
27 Feb 2014	8:07 pm	I0227024.d	14B0749-04@5X
27 Feb 2014	8:19 pm	I0227025.d	14B0756-01@5X TBA
27 Feb 2014	8:31 pm	I0227026.d	B090940-MS1@5X
27 Feb 2014	8:44 pm	I0227027.d	B090940-MSD1@5X
27 Feb 2014	8:56 pm	I0227028.d	ISO
27 Feb 2014	9:09 pm	I0227029.d	1260/1016 100 ✓
27 Feb 2014	9:21 pm	I0227030.d	B091012-BLK1
27 Feb 2014	9:33 pm	I0227031.d	B091012-BS1@5X
27 Feb 2014	9:46 pm	I0227032.d	B091012-BSD1@5X
27 Feb 2014	9:58 pm	I0227033.d	14B0788-01
27 Feb 2014	10:11 pm	I0227034.d	14B0788-02
27 Feb 2014	10:23 pm	I0227035.d	14B0788-03
27 Feb 2014	10:40 pm	I0227036.d	14B0788-04
27 Feb 2014	10:58 pm	I0227037.d	14B0788-05
27 Feb 2014	11:15 pm	I0227038.d	14B0788-06
27 Feb 2014	11:33 pm	I0227039.d	14B0788-07
27 Feb 2014	11:50 pm	I0227040.d	14B0788-08
28 Feb 2014	12:08 am	I0227041.d	14B0788-09
28 Feb 2014	12:25 am	I0227042.d	ISO
28 Feb 2014	12:43 am	I0227043.d	1260/1016 50 ✓
28 Feb 2014	1:00 am	I0227044.d	14B0788-10
28 Feb 2014	1:18 am	I0227045.d	14B0788-11
28 Feb 2014	1:30 am	I0227046.d	14B0788-12
28 Feb 2014	1:47 am	I0227047.d	14B0788-13
28 Feb 2014	2:05 am	I0227048.d	14B0788-14
28 Feb 2014	2:22 am	I0227049.d	14B0788-15
28 Feb 2014	2:40 am	I0227050.d	14B0788-16
28 Feb 2014	2:57 am	I0227051.d	14B0788-17
28 Feb 2014	3:15 am	I0227052.d	14B0788-18
28 Feb 2014	3:32 am	I0227053.d	14B0788-19
28 Feb 2014	3:50 am	I0227054.d	14B0788-20
28 Feb 2014	4:07 am	I0227055.d	B091012-MS1
28 Feb 2014	4:24 am	I0227056.d	B091012-MSD1
28 Feb 2014	4:42 am	I0227057.d	ISO
28 Feb 2014	4:59 am	I0227058.d	1260/1016 100 ✓
28 Feb 2014	5:17 am	I0227059.d	B090863-BLK1@P/S 100
28 Feb 2014	5:29 am	I0227060.d	B090863-BS1@P/S 100

Analysis Log

Date	Filename	Lab ID	Sample Info
28 Feb 2014	5:42 am	I0227061.d	B090863-BSD10P/S 1CU
28 Feb 2014	5:54 am	I0227062.d	14B0664-230P/S 3CU
28 Feb 2014	6:11 am	I0227063.d	ISO
28 Feb 2014	6:29 am	I0227064.d	ISO
28 Feb 2014	6:46 am	I0227065.d	1260/1016 50
28 Feb 2014	6:59 am	I0227066.d	ISO
28 Feb 2014	7:11 am	I0227067.d	B090906-BLK10P/S
28 Feb 2014	7:23 am	I0227068.d	B090906-BL10P/S
28 Feb 2014	7:36 am	I0227069.d	B090906-BSD10P/S
28 Feb 2014	7:48 am	I0227070.d	14B0594-400P/S
28 Feb 2014	8:01 am	I0227071.d	14B0594-410P/S
28 Feb 2014	8:13 am	I0227072.d	14B0594-420P/S
28 Feb 2014	8:25 am	I0227073.d	14B0594-430P/S
28 Feb 2014	8:38 am	I0227074.d	14B0594-440P/S
28 Feb 2014	8:50 am	I0227075.d	14B0594-450P/S
28 Feb 2014	9:02 am	I0227076.d	14B0594-460P/S
28 Feb 2014	9:15 am	I0227077.d	14B0594-470P/S
28 Feb 2014	9:27 am	I0227078.d	14B0594-480P/S
28 Feb 2014	9:39 am	I0227079.d	14B0594-490P/S
28 Feb 2014	9:52 am	I0227080.d	14B0594-500P/S
28 Feb 2014	10:04 am	I0227081.d	14B0594-510P/S
28 Feb 2014	10:17 am	I0227082.d	ISO
28 Feb 2014	10:29 am	I0227083.d	1260/1016 100
28 Feb 2014	10:41 am	I0227084.d	14B0594-520P/S
28 Feb 2014	10:54 am	I0227085.d	14B0594-530P/S
28 Feb 2014	11:06 am	I0227086.d	14B0594-540P/S
28 Feb 2014	11:19 am	I0227087.d	14B0594-550P/S
28 Feb 2014	11:31 am	I0227088.d	14B0594-560P/S
28 Feb 2014	11:43 am	I0227089.d	14B0594-570P/S
28 Feb 2014	11:56 am	I0227090.d	14B0594-580P/S
28 Feb 2014	12:08 pm	I0227091.d	14B0594-590P/S
28 Feb 2014	12:20 pm	I0227092.d	B090906-MS10P/S
28 Feb 2014	12:33 pm	I0227093.d	B090906-BSD10P/S
28 Feb 2014	12:45 pm	I0227094.d	ISO
28 Feb 2014	12:57 pm	I0227095.d	1260/1016 50
28 Feb 2014	1:10 pm	I0227096.d	1260/1016 20
28 Feb 2014	6:04 pm	I0227097.d	ISO
28 Feb 2014	6:16 pm	I0227098.d	TO-10A GLASSWARE CHECK
28 Feb 2014	7:20 pm	I0227099.d	ISO
28 Feb 2014	7:32 pm	I0227100.d	B090950-BLK20TO-10A TBA
28 Feb 2014	7:44 pm	I0227101.d	B090950-BL10TO-10A TBA
28 Feb 2014	7:57 pm	I0227102.d	B090950-BSD10TO-10A TBA
28 Feb 2014	8:09 pm	I0227103.d	14B0636-100TBA
28 Feb 2014	8:21 pm	I0227104.d	14B0636-110TBA
28 Feb 2014	8:34 pm	I0227105.d	14B0636-120TBA
28 Feb 2014	8:46 pm	I0227106.d	14B0636-130TBA
28 Feb 2014	8:59 pm	I0227107.d	14B0636-140TBA
28 Feb 2014	9:11 pm	I0227108.d	14B0636-150TBA
28 Feb 2014	9:23 pm	I0227109.d	14B0636-160TBA
28 Feb 2014	9:36 pm	I0227110.d	14B0636-170TBA
28 Feb 2014	9:48 pm	I0227111.d	14B0636-180TBA
28 Feb 2014	10:00 pm	I0227112.d	ISO
28 Feb 2014	10:13 pm	I0227113.d	1260/1016 100

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 9-1260-022014C.M
 Title : 1260/1016 02/20/14 12/05/13
 Last Update : Fri Feb 21 09:11:02 2014
 Response Via : Initial Calibration

Calibration Files

5 =I0220013.d 10 =I0220014.d 20 =I0220015.d
 50 =I0220016.d 100 =I0220017.d 200 =I0220018.d

	Compound	5	10	20	50	100	200	Avg	ERSD
1)	S Tetrachloro-m...	2.094	2.148	2.196	2.174	2.278	2.310	2.215	E7 3.81
2)	S Decachlorobip...	1.891	1.865	1.855	1.816	1.881	1.931	1.884	E7 2.43
3)	L1 1016{1}			8.807	9.008	8.185	7.582	7.996	E5 6.92
4)	L1 1016{2}			9.790	9.084	9.463	9.404	9.429	E5 2.66
5)	L1 1016{3}			7.647	6.775	6.879	6.574	6.874	E5 6.67
6)	L1 1016{4}			4.417	3.971	4.132	3.956	4.081	E5 5.00
7)	L1 1016{5}			5.859	5.207	5.082	4.933	5.196	E5 7.52
8)	L7 1260{1}			1.102	0.970	1.001	0.984	1.009	E5 5.29
9)	L7 1260{2}			1.713	1.554	1.552	1.544	1.581	E6 4.70
10)	L7 1260{3}			1.034	0.932	0.922	0.908	0.940	E6 5.74
11)	L7 1260{4}			1.119	1.023	1.012	1.013	1.035	E6 4.52
12)	L7 1260{5}			2.297	2.213	2.303	2.332	2.298	E6 2.18

Signal #2 Calibration Files

5 =I0220013.d 10 =I0220014.d 20 =I0220015.d
 50 =I0220016.d 100 =I0220017.d 200 =I0220018.d

	Compound	5	10	20	50	100	200	Avg	ERSD
1)	S Tetrachloro-m...	0.987	0.992	1.019	1.001	1.046	1.060	1.024	E7 3.12
2)	S Decachlorobip...	9.321	8.817	8.246	8.078	8.224	8.528	8.523	E6 5.01
3)	L1 1016{1}			1.670	1.571	1.507	1.412	1.510	E5 7.68
4)	L1 1016{2}			4.984	4.400	4.428	4.349	4.504	E5 6.01
5)	L1 1016{3}			3.292	3.039	3.074	2.912	3.041	E5 5.33
6)	L1 1016{4}			2.001	1.878	1.864	1.806	1.868	E5 4.48
7)	L1 1016{5}			2.820	2.625	2.536	2.406	2.552	E5 7.11
8)	L7 1260{1}			6.418	5.314	5.409	5.142	5.447	E5 10.46
9)	L7 1260{2}			7.486	6.373	6.438	6.107	6.467	E5 9.35
10)	L7 1260{3}			5.791	4.895	4.786	4.544	4.899	E5 10.77
11)	L7 1260{4}			6.352	5.548	5.454	5.209	5.543	E5 8.69
12)	L7 1260{5}			1.245	1.129	1.126	1.113	1.145	E6 4.92

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 9-1260-022014C.M
 Title : 1260/1016 02/20/14 12/05/13
 Last Update : Fri Feb 21 09:11:02 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\022014A\I0220013.d
2	10	10	0	C:\msdchem\1\data\022014A\I0220014.d
3	20	20	0	C:\msdchem\1\data\022014A\I0220015.d
4	50	50	0	C:\msdchem\1\data\022014A\I0220016.d
5	100	100	0	C:\msdchem\1\data\022014A\I0220017.d
6	200	200	0	C:\msdchem\1\data\022014A\I0220018.d
7	250	250	0	C:\msdchem\1\data\022014A\I0220019.d

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Feb 21 09:09 2014	Feb 21 09:09 2014	20 Feb 2014 8:19 pm
2	10	Feb 21 09:09 2014	Feb 21 09:09 2014	20 Feb 2014 8:32 pm
3	20	Feb 21 09:11 2014	Feb 21 09:10 2014	20 Feb 2014 8:44 pm
4	50	Feb 21 09:09 2014	Feb 21 09:09 2014	20 Feb 2014 8:57 pm
5	100	Feb 21 09:09 2014	Feb 21 09:09 2014	20 Feb 2014 9:09 pm
6	200	Feb 21 09:09 2014	Feb 21 09:09 2014	20 Feb 2014 9:21 pm
7	250	Feb 21 09:09 2014	Feb 21 09:09 2014	20 Feb 2014 9:34 pm

9-1260-022014C.M Fri Feb 21 09:11:37 2014

Data Path : C:\msdchem\1\data\022014A\
 Data File : 10220017.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Feb 2014 9:09 pm
 Operator : JMB
 Sample : 1260/1016 100 Inst : ECD 9
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Feb 21 09:09:11 2014
 Quant Method : C:\msdchem\1\methods\PC3 Methods\9-1260-022014C.M
 Quant Title : 1260/1016 02/20/14 12/05/13
 QLast Update : Fri Feb 21 09:09:11 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase :
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.885	3.281	2278.2E6	1045.9E6	105.819	104.630
Spiked Amount	200.000		Recovery	=	52.91%	52.31%
2) S Decachlor...	6.961	7.611	1880.9E6	822.4E6	101.293	95.462
Spiked Amount	200.000		Recovery	=	50.65%	47.73%
Target Compounds						
3) L1 1016(1)	3.434	4.222	81850124	15074521	79.367	93.020
4) L1 1016(2)	3.790	4.392	94626367	44278864	100.271	94.370
5) L1 1016(3)	3.889	4.500	68791449	30737971	95.400	97.091
6) L1 1016(4)	3.937	4.586	41318475	18636202	98.523	96.081
7) L1 1016(5)	4.199	4.881	50822800	25356263	91.860	93.127
Sum 1016			337.4E6	134.1E6	465.420	473.693
Average 1016					93.084	94.739
8) L7 1260(1)	5.146	5.918	100.1E6	54087971	96.676	92.208
9) L7 1260(2)	5.367	6.073	155.2E6	64379476	94.999	92.906
10) L7 1260(3)	5.682	6.393	92165729	47858320	93.760	89.571
11) L7 1260(4)	5.879	6.588	101.2E6	54543476	94.517	91.673
12) L7 1260(5)	6.109	6.735	230.3E6	112.6E6	102.074	94.820
Sum 1260			678.9E6	333.4E6	482.025	461.177
Average 1260					96.405	92.235

(f)=RT Delta > 1/2 Window (#)-Amounts differ by > 25% (m)=manual inc.

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 9-1242-010714C.M
 Title : 1242 01/07/14 08/27/13
 Last Update : Wed Jan 08 11:24:56 2014
 Response Via : Initial Calibration

Calibration Files

5 =I0107011.d 10 =I0107012.d 20 =I0107013.d
 50 =I0107014.d 100 =I0107015.d 200 =I0107016.d

	Compound	5	10	20	50	100	200	Avg	#RSD
1) S	Tetrachloro-m...	1.978	1.984	1.986	1.993	2.192	2.129	2.052	E7 4.25
2) S	Decachlorobip...	1.805	1.581	1.511	1.471	1.618	1.618	1.602	E7 6.63
3) L4	1242{1}			6.435	5.867	5.558	5.232	5.726	E5 7.96
4) L4	1242{2}			2.462	2.163	2.072	1.957	2.155	E5 6.81
5) L4	1242{3}			7.026	5.484	6.532	6.455	6.691	E5 4.14
6) L4	1242{4}			4.694	4.941	4.782	4.594	4.777	E5 2.90
7) L4	1242{5}			3.187	2.857	2.777	2.697	2.880	E5 6.47

Signal #2 Calibration Files

5 =I0107011.d 10 =I0107012.d 20 =I0107013.d
 50 =I0107014.d 100 =I0107015.d 200 =I0107016.d

	Compound	5	10	20	50	100	200	Avg	#RSD
1) S	Tetrachloro-m...	1.064	1.046	1.039	1.048	1.159	1.134	1.088	E7 4.57
2) S	Decachlorobip...	1.044	0.956	0.891	0.862	0.951	0.946	0.941	E7 6.10
3) L4	1242{1}			2.493	2.290	2.143	1.993	2.200	E5 8.94
4) L4	1242{2}			1.441	1.347	1.275	1.168	1.290	E5 8.35
5) L4	1242{3}			3.975	3.716	3.667	3.383	3.654	E5 6.07
6) L4	1242{4}			2.850	2.603	2.558	2.395	2.587	E5 6.42
7) L4	1242{5}			1.710	1.634	1.569	1.492	1.596	E5 5.10

(#) - Out of Range ### Number of calibration levels exceeded format ###

167

Method Path : C:\msdchem\1\methods\FCE Methods\
 Method File : 9-1242-010714C.M
 Title : 1242 01/07/14 08/27/13
 Last Update : Wed Jan 08 11:24:56 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\010714\I0107011.d
2	10	10	0	C:\msdchem\1\data\010714\I0107012.d
3	20	20	0	C:\msdchem\1\data\010714\I0107013.d
4	50	50	0	C:\msdchem\1\data\010714\I0107014.d
5	100	100	0	C:\msdchem\1\data\010714\I0107015.d
6	200	200	0	C:\msdchem\1\data\010714\I0107016.d
7	250	250	0	C:\msdchem\1\data\010714\I0107017.d

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Jan 08 11:24 2014	Jan 08 10:45 2014	7 Jan 2014 1:47 pm
2	10	Jan 08 11:24 2014	Jan 08 10:45 2014	7 Jan 2014 2:00 pm
3	20	Jan 08 11:24 2014	Jan 08 10:45 2014	7 Jan 2014 2:12 pm
4	50	Jan 08 11:24 2014	Jan 08 10:45 2014	7 Jan 2014 2:25 pm
5	100	Jan 08 11:24 2014	Jan 08 10:45 2014	7 Jan 2014 2:37 pm
6	200	Jan 08 11:24 2014	Jan 08 10:45 2014	7 Jan 2014 2:49 pm
7	250	Jan 08 11:24 2014	Jan 08 10:45 2014	7 Jan 2014 3:02 pm

9-1242-010714C.M Wed Jan 08 11:25:12 2014

168

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 9-1254-010714C.M
 Title : 1254 01/07/14 09/17/13
 Last Update : Wed Jan 08 10:45:49 2014
 Response Via : Initial Calibration

Calibration Files

5 =I0107011.d 10 =I0107012.d 20 =I0107013.d
 50 =I0107014.d 100 =I0107015.d 200 =I0107016.d

Compound	5	10	20	50	100	200	Avg	RSD
1) S Tetrachloro-m...	1.978	1.984	1.986	1.993	2.192	2.129	2.052	E7 4.25
2) S Decachlorobip...	1.805	1.581	1.511	1.471	1.618	1.618	1.602	E7 6.63
3) L6 1254{1}			6.893	6.303	6.159	5.860	6.189	E5 7.36
4) L6 1254{2}			1.224	1.114	1.094	1.045	1.100	E6 7.12
5) L6 1254{3}			1.236	1.116	1.136	1.100	1.134	E6 5.30
6) L6 1254{4}			9.270	8.708	8.676	8.383	8.654	E5 4.59
7) L6 1254{5}			1.251	1.181	1.186	1.149	1.179	E6 3.96

Signal #2 Calibration Files

5 =I0107011.d 10 =I0107012.d 20 =I0107013.d
 50 =I0107014.d 100 =I0107015.d 200 =I0107016.d

Compound	5	10	20	50	100	200	Avg	RSD
1) S Tetrachloro-m...	1.064	1.046	1.039	1.048	1.159	1.134	1.088	E7 4.57
2) S Decachlorobip...	1.044	0.956	0.991	0.962	0.951	0.946	0.941	E7 6.10
3) L6 1254{1}			4.592	4.106	3.974	3.728	4.006	E5 9.46
4) L6 1254{2}			5.426	4.827	4.554	4.292	4.655	E5 10.71
5) L6 1254{3}			7.720	6.993	6.799	6.456	6.849	E5 8.19
6) L6 1254{4}			5.612	4.999	4.847	4.616	4.819	E5 11.29
7) L6 1254{5}			6.465	5.859	6.886	6.334	6.318	E5 6.28

(#) = Out of Range ### Number of calibration levels exceeded format ###

K69

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 9-1254-010714C.M
 Title : 1254 01/07/14 09/17/13
 Last Update : Wed Jan 08 10:45:49 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\010714\I0107011.d
2	10	10	0	C:\msdchem\1\data\010714\I0107012.d
3	20	20	0	C:\msdchem\1\data\010714\I0107013.d
4	50	50	0	C:\msdchem\1\data\010714\I0107014.d
5	100	100	0	C:\msdchem\1\data\010714\I0107015.d
6	200	200	0	C:\msdchem\1\data\010714\I0107016.d
7	250	250	0	C:\msdchem\1\data\010714\I0107017.d

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 1:47 pm
2	10	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 2:00 pm
3	20	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 2:12 pm
4	50	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 2:25 pm
5	100	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 2:37 pm
6	200	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 2:49 pm
7	250	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 3:02 pm

9-1254-010714C.M Wed Jan 08 10:46:18 2014

170

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 9-1248-010714C.M
 Title : 1248 01/07/14 08/29/13
 Last Update : Wed Jan 08 11:15:14 2014
 Response Via : Initial Calibration

Calibration Files

5 =I0107011.d 10 =I0107012.d 20 =I0107013.d
 50 =I0107014.d 100 =I0107015.d 200 =I0107016.d

Compound	5	10	20	50	100	200	Avg	RSD
1) S Tetrachloro-m...	1.978	1.984	1.986	1.993	2.192	2.129	2.052	E7 4.25
2) S Decachlorobip...	1.805	1.581	1.311	1.471	1.618	1.618	1.602	E7 6.63
3) L5 1248{1}			4.282	3.898	3.787	4.044	3.994	E5 4.67
4) L5 1248{2}			5.343	4.743	4.484	4.564	4.722	E5 7.68
5) L5 1248{3}			6.751	6.095	5.882	6.170	6.184	E5 5.41
6) L5 1248{4}			7.745	6.935	6.780	7.216	7.149	E5 5.18
7) L5 1248{5}			6.493	5.915	5.773	6.158	6.081	E5 4.49

Signal #2 Calibration Files

5 =I0107011.d 10 =I0107012.d 20 =I0107013.d
 50 =I0107014.d 100 =I0107015.d 200 =I0107016.d

Compound	5	10	20	50	100	200	Avg	%RSD
1) S Tetrachloro-m...	1.064	1.046	1.039	1.048	1.159	1.134	1.088	E7 4.57
2) S Decachlorobip...	1.044	0.956	0.891	0.862	0.951	0.946	0.941	E7 6.10
3) L5 1248{1}			2.386	2.277	2.112	2.138	2.208	E5 5.46
4) L5 1248{2}			3.227	2.840	2.632	2.624	2.772	E5 10.02
5) L5 1248{3}			4.079	3.542	3.360	3.391	3.528	E5 9.14
6) L5 1248{4}			4.524	3.961	3.763	3.858	3.963	E5 8.13
7) L5 1248{5}			4.915	4.462	4.246	4.339	4.437	E5 6.38

(#) = Out of Range ### Number of calibration levels exceeded format ###

17

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 9-1248-010714C.M
 Title : 1248 01/07/14 08/29/13
 Last Update : Wed Jan 08 11:15:14 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\010714\IC107011.d
2	10	10	0	C:\msdchem\1\data\010714\IC107012.d
3	20	20	0	C:\msdchem\1\data\010714\IC107013.d
4	50	50	0	C:\msdchem\1\data\010714\IC107014.d
5	100	100	0	C:\msdchem\1\data\010714\IC107015.d
6	200	200	0	C:\msdchem\1\data\010714\IC107016.d
7	250	250	0	C:\msdchem\1\data\010714\IC107017.d

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Jan 08 11:15 2014	Jan 08 10:45 2014	7 Jan 2014 1:47 pm
2	10	Jan 08 11:15 2014	Jan 08 10:45 2014	7 Jan 2014 2:00 pm
3	20	Jan 08 11:15 2014	Jan 08 10:45 2014	7 Jan 2014 2:12 pm
4	50	Jan 08 11:15 2014	Jan 08 10:45 2014	7 Jan 2014 2:25 pm
5	100	Jan 08 11:15 2014	Jan 08 10:45 2014	7 Jan 2014 2:37 pm
6	200	Jan 08 11:15 2014	Jan 08 10:45 2014	7 Jan 2014 2:49 pm
7	250	Jan 08 11:15 2014	Jan 08 10:45 2014	7 Jan 2014 3:02 pm

9-1248-010714C.M Wed Jan 08 11:15:36 2014

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0788
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Instrument ID: ECD 9 Calibration: 1400043
 Lab File ID: 10227029.d Calibration Date: 02/20/14 00:00
 Sequence: S005587 Injection Date: 02/27/14
 Lab Sample ID: S005587-CCV1 Injection Time: 21:09

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	99.3				-0.7	15
Aroclor-1016 [2C]	A	100	104				3.7	15
Aroclor-1260	A	100	95.2				-4.8	15
Aroclor-1260 [2C]	A	100	88.7				-11.3	15
Decachlorobiphenyl	A	100	90.0	1.884475E+07	1.6959E+07		-10.0	
Decachlorobiphenyl [2C]	A	100	89.9	8522995	7663000		-10.1	
Tetrachloro-m-xylene	A	100	105	2.215256E+07	2.3292E+07		5.1	
Tetrachloro-m-xylene [2C]	A	100	108	1.02368E+07	1.11E+07		8.4	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0788
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD 9	Calibration:	1400043
Lab File ID:	10227043.d	Calibration Date:	02/20/14 00:00
Sequence:	S005587	Injection Date:	02/28/14
Lab Sample ID:	S005587-CCV2	Injection Time:	00:43

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	50.0	51.9				3.8	15
Aroclor-1016 [2C]	A	50.0	55.4				10.9	15
Aroclor-1260	A	50.0	51.5				3.0	15
Aroclor-1260 [2C]	A	50.0	50.0				-0.06	15
Decachlorobiphenyl	A	50.0	49.5	1.884475E+07	1.8674E+07		-0.9	
Decachlorobiphenyl [2C]	A	50.0	49.8	8522995	8484000		-0.5	
Tetrachloro-m-xylene	A	50.0	53.0	2.215256E+07	2.3484E+07		6.0	
Tetrachloro-m-xylene [2C]	A	50.0	56.0	1.02368E+07	1.1458E+07		11.9	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

174

Data Path : C:\msdchem\1\data\022714\
 Data File : I0227043.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Feb 2014 12:43 am
 Operator : JMB
 Sample : 1260/1016 50 Inst : ECD 9
 Misc :
 ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: E-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Feb 28 04:53:35 2014
 Quant Method : C:\msdchem\1\methods\PC9 Methods\9-1260-022014C.M
 Quant Title : 1260/1016 02/20/14 12/35/13
 QLast Update : Fri Feb 21 09:11:02 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.880	3.279	1194.2E6	572.9E6	53.007	55.970
Spiked Amount	200.000		Recovery	=	26.501	27.98%
2) S Decachlor...	6.956	7.607	933.7E6	424.2E6	49.547	49.766
Spiked Amount	200.000		Recovery	=	24.77	24.88
Target Compounds						
3) L1 1016{1}	3.428	4.219	41377007	8622755	51.748	57.112
4) L1 1016{2}	3.764	4.389	48230730	26932842	51.153	59.803
5) L1 1016{3}	3.883	4.497	35565648	15878572	51.866	52.222
6) L1 1016{4}	3.931	4.583	21473718	9930954	52.622	53.178
7) L1 1016{5}	4.193	4.878	27051540	14012395	52.066	54.914
Sum 1016			173.856	75377518	259.475	277.229
Average 1016					51.895	55.446
8) L7 1260{1}	5.139	5.915	53481807	27206446	53.024	49.944
9) L7 1260{2}	5.360	6.069	80910337	32622880	51.187	50.443
10) L7 1260{3}	5.675	6.389	49052384	24687934	52.199	50.398
11) L7 1260{4}	5.872	6.585	53179997	27539387	51.368	49.687
12) L7 1260{5}	6.103	6.732	114.3E6	56540912	49.732	49.386
Sum 1260			350.9E6	166.6E6	257.511	249.859
Average 1260					51.502	49.972

(f)-RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)-manual int.

CHECKED BY:
John Beane

FEB 28 2014



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

395

175

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Instrument ID: ECD 9 Calibration: 1400043
Lab File ID: ID227058.d Calibration Date: 02/20/14 00:00
Sequence: S005587 Injection Date: 02/28/14
Lab Sample ID: S005587-CCV3 Injection Time: 04:59

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	103				2.7	15
Aroclor-1016 [2C]	A	100	105				5.1	15
Aroclor-1260	A	100	101				1.2	15
Aroclor-1260 [2C]	A	100	96.8				-3.2 ✓	15
Decachlorobiphenyl	A	100	102	1.884475E+07	1.913E+07		1.5	
Decachlorobiphenyl [2C]	A	100	103	8522995	8767000		2.9	
Tetrachloro-m-xylene	A	100	107	2.215256E+07	2.3653E+07		6.8	
Tetrachloro-m-xylene [2C]	A	100	112	1.02368E+07	1.1416E+07		11.5	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

C:\msdchem\1\data\022714A\

Date	Filename	Lab ID	Sample Info
27 Feb 2014	16:00 pm	C0227001.d	ISO
27 Feb 2014	16:13 pm	C0227002.d	ISO
27 Feb 2014	16:26 pm	C0227003.d	ISO
27 Feb 2014	16:39 pm	C0227004.d	1260/1016 100 ✓ 1312045
27 Feb 2014	16:52 pm	C0227005.d	1254 100 1309167
27 Feb 2014	17:05 pm	C0227006.d	1248 100 ✓ 1308296
27 Feb 2014	17:17 pm	C0227007.d	1242 100 1308268
27 Feb 2014	17:30 pm	C0227008.d	1232/1268 100 1312248
27 Feb 2014	17:43 pm	C0227009.d	1221/1262 100 1401037
27 Feb 2014	17:56 pm	C0227010.d	ISO
27 Feb 2014	20:45 pm	C0227011.d	ISO
27 Feb 2014	20:58 pm	C0227012.d	B091013-BLK1
27 Feb 2014	21:11 pm	C0227013.d	B091013-BS1@5X
27 Feb 2014	21:24 pm	C0227014.d	B091013-BSD1@5X
27 Feb 2014	21:37 pm	C0227015.d	14B0779-01
27 Feb 2014	21:50 pm	C0227016.d	14B0780-01
27 Feb 2014	22:03 pm	C0227017.d	14B0780-02
27 Feb 2014	22:16 pm	C0227018.d	14B0780-03
27 Feb 2014	22:29 pm	C0227019.d	14B0788-21
27 Feb 2014	22:41 pm	C0227020.d	14B0788-22
27 Feb 2014	22:54 pm	C0227021.d	14B0788-23
27 Feb 2014	23:07 pm	C0227022.d	14B0788-24
27 Feb 2014	23:20 pm	C0227023.d	14B0788-25
27 Feb 2014	23:33 pm	C0227024.d	14B0788-26
27 Feb 2014	23:46 pm	C0227025.d	14B0788-27
27 Feb 2014	23:59 pm	C0227026.d	14B0788-28
28 Feb 2014	0:12 am	C0227027.d	ISO
28 Feb 2014	0:25 am	C0227028.d	1260/1016 100 ✓
28 Feb 2014	0:38 am	C0227029.d	14B0788-29
28 Feb 2014	0:50 am	C0227030.d	14B0788-30
28 Feb 2014	1:03 am	C0227031.d	B091013-MS1
28 Feb 2014	1:16 am	C0227032.d	B091013-MSD1
28 Feb 2014	1:29 am	C0227033.d	ISO
28 Feb 2014	1:42 am	C0227034.d	1260/1016 50 ✓
28 Feb 2014	4:33 am	C0227035.d	ISO
28 Feb 2014	4:46 am	C0227036.d	ISO
28 Feb 2014	4:59 am	C0227037.d	1016/1260 100 ✓
28 Feb 2014	5:18 am	C0227038.d	ISO
28 Feb 2014	5:30 am	C0227039.d	14B0788-21@5X
28 Feb 2014	5:43 am	C0227040.d	14B0788-29@50X
28 Feb 2014	5:56 am	C0227041.d	14B0788-30@10X
28 Feb 2014	6:09 am	C0227042.d	14B0788-02@2X
28 Feb 2014	6:22 am	C0227043.d	14B0788-07@5X
28 Feb 2014	6:35 am	C0227044.d	14B0788-09@2X
28 Feb 2014	6:48 am	C0227045.d	14B0788-10@10X
28 Feb 2014	7:01 am	C0227046.d	14B0788-11@10X
28 Feb 2014	7:14 am	C0227047.d	14B0788-13@5X
28 Feb 2014	7:27 am	C0227048.d	14B0788-14@5X
28 Feb 2014	7:40 am	C0227049.d	14B0788-15@10X
28 Feb 2014	7:53 am	C0227050.d	14B0788-19@2X
28 Feb 2014	8:06 am	C0227051.d	14B0788 20@5X
28 Feb 2014	8:19 am	C0227052.d	ISO
28 Feb 2014	8:32 am	C0227053.d	ISO
28 Feb 2014	8:45 am	C0227054.d	1016/1260 100 ✓
28 Feb 2014	8:58 am	C0227055.d	B091013-BLK1@TBA
28 Feb 2014	9:11 am	C0227056.d	B091013-BS1@5X TBA
28 Feb 2014	9:24 am	C0227057.d	B091013-BSD1@5X TBA
28 Feb 2014	9:37 am	C0227058.d	14B0780-01@10XTBA
28 Feb 2014	9:50 am	C0227059.d	14B0780-02@100XTBA
28 Feb 2014	10:03 am	C0227060.d	14B0780-03@5XTBA
28 Feb 2014	10:16 am	C0227061.d	14B0749-01@5X TBA
28 Feb 2014	10:29 am	C0227062.d	14B0788-20@10X

177

Injection Log

523

C:\msdchem\1\data\022714A\

Date	Filename	Lab ID	Sample Info
28 Feb 2014	10:42 am	C0227063.d	14B0788-16@10X
28 Feb 2014	10:55 am	C0227064.d	ISO
28 Feb 2014	11:08 am	C0227065.d	1260/1016 50 ✓
28 Feb 2014	11:24 am	C0227066.d	ISO
28 Feb 2014	11:39 am	C0227067.d	ISO
28 Feb 2014	11:52 am	C0227068.d	B091059-BLK1@TCLP
28 Feb 2014	12:05 pm	C0227069.d	B091059-BS1@TCLP
28 Feb 2014	12:18 pm	C0227070.d	14B0782-01@TCLP
28 Feb 2014	12:36 pm	C0227071.d	B091059-MS1@TCLP
28 Feb 2014	12:54 pm	C0227072.d	ISO
28 Feb 2014	13:12 pm	C0227073.d	1260/1016 100
28 Feb 2014	13:23 pm	C0227074.d	B090989-BLK1@W TBA
28 Feb 2014	13:38 pm	C0227075.d	B090989-BS1@W TBA
28 Feb 2014	13:51 pm	C0227076.d	B090989-BSD1@W TBA
28 Feb 2014	14:04 pm	C0227077.d	14B0777-02@W TBA
28 Feb 2014	14:22 pm	C0227078.d	14B0777-03@W TBA
28 Feb 2014	14:40 pm	C0227079.d	ISO
28 Feb 2014	14:58 pm	C0227080.d	1260/1016 50
28 Feb 2014	17:30 pm	C0227081.d	ISO
28 Feb 2014	17:43 pm	C0227082.d	B091043-BLK1
28 Feb 2014	17:56 pm	C0227083.d	B091043-BS1@5X
28 Feb 2014	18:09 pm	C0227084.d	B091043-BSD1@5X
28 Feb 2014	18:22 pm	C0227085.d	14B0807-01@5X
28 Feb 2014	18:34 pm	C0227086.d	14B0808-07@5X
28 Feb 2014	18:47 pm	C0227087.d	B091043-MS1@5X
28 Feb 2014	19:00 pm	C0227088.d	B091043-MSD1@5X
28 Feb 2014	19:13 pm	C0227089.d	ISO
28 Feb 2014	19:26 pm	C0227090.d	1260/1016 100
28 Feb 2014	19:39 pm	C0227091.d	B090959-BLK1
28 Feb 2014	19:52 pm	C0227092.d	B090959-BS1@5X
28 Feb 2014	20:05 pm	C0227093.d	B090959-BSD1@5X
28 Feb 2014	20:18 pm	C0227094.d	14B0508-02@5X
28 Feb 2014	20:31 pm	C0227095.d	14B0508-03@5X
28 Feb 2014	20:44 pm	C0227096.d	14B0508-05@5X
28 Feb 2014	20:57 pm	C0227097.d	14B0508-14@5X
28 Feb 2014	21:10 pm	C0227098.d	14B0508-15@5X
28 Feb 2014	21:23 pm	C0227099.d	ISO
28 Feb 2014	21:36 pm	C0227100.d	1260/1016 50
28 Feb 2014	21:49 pm	C0227101.d	14B0508-18@5X
28 Feb 2014	22:02 pm	C0227102.d	14B0508-19@5X
28 Feb 2014	22:15 pm	C0227103.d	14B0508-24@5X
28 Feb 2014	22:28 pm	C0227104.d	14B0508-26@5X
28 Feb 2014	22:41 pm	C0227105.d	B090959-MS1@5X
28 Feb 2014	22:54 pm	C0227106.d	B090959-MSD1@5X
28 Feb 2014	23:07 pm	C0227107.d	ISO
28 Feb 2014	23:20 pm	C0227108.d	1260/1016 100
01 Mar 2014	10:04 am	C0227109.d	ISO
01 Mar 2014	10:17 am	C0227110.d	ISO
01 Mar 2014	10:30 am	C0227111.d	1016/1260 100
01 Mar 2014	12:17 pm	C0227112.d	ISO
01 Mar 2014	12:30 pm	C0227113.d	14B0808-07@10X
01 Mar 2014	12:43 pm	C0227114.d	B090959-BLK1@5X TBA
01 Mar 2014	12:56 pm	C0227115.d	B090959-BS1@5X TBA
01 Mar 2014	13:09 pm	C0227116.d	B090959-BSD1@5X TBA
01 Mar 2014	13:22 pm	C0227117.d	14B0508-02@5X TBA
01 Mar 2014	13:34 pm	C0227118.d	14B0508-03@5X TBA
01 Mar 2014	13:47 pm	C0227119.d	14B0508-15@5X TBA
01 Mar 2014	14:00 pm	C0227120.d	14B0508-19@5X TBA
01 Mar 2014	14:13 pm	C0227121.d	14B0508-24@100X
01 Mar 2014	14:26 pm	C0227122.d	14B0508-26@RR
01 Mar 2014	14:39 pm	C0227123.d	ISO
01 Mar 2014	14:52 pm	C0227124.d	1260/1016 50

Response Factor Report DUAL ECD3

223

Method Path : C:\msdchem\1\methods\
 Method File : 3-1260-010714C.M
 Title : 1260/1016 01/07/14 12/05/13
 Last Update : Wed Jan 08 12:48:21 2014
 Response Via : Initial Calibration

Calibration Files

5 =C0107015.d 10 =C0107016.d 20 =C0107017.d
 50 =C0107018.d 100 =C0107019.d 200 =C0107020.d

	Compound	5	10	20	50	100	200	Avg	3RSD
1)	S TCMX - SURROGATE	1.909	1.876	1.862	1.793	1.878	1.795	1.844	E7 2.65
2)	S DCB - SURROGATE	1.435	1.416	1.379	1.326	1.415	1.393	1.393	E7 2.54
3)	L1 1016			7.704	7.197	7.715	6.740	7.206	E5 6.97
4)	L1 1016 - {2}			3.124	2.782	2.814	2.729	2.834	E5 5.88
5)	L1 1016 - {3}			9.046	8.539	8.671	8.613	8.727	E5 2.54
6)	L1 1016 - {4}			3.902	3.767	3.777	3.680	3.756	E5 2.59
7)	L1 1016 - {5}			5.204	4.747	4.738	4.492	4.727	E5 6.32
8)	L7 1260			4.943	4.555	4.600	4.319	4.542	E5 5.79
9)	L7 1260 - {2}			1.461	1.353	1.383	1.313	1.363	E6 4.56
10)	L7 1260 - {3}			9.221	8.055	8.254	7.026	8.232	E5 7.08
11)	L7 1260 - {4}			9.057	8.487	8.837	8.451	8.656	E5 3.21
12)	L7 1260 - {5}			1.812	1.758	1.834	1.802	1.804	E6 1.57

Signal #2 Calibration Files

5 =C0107015.d 10 =C0107016.d 20 =C0107017.d
 50 =C0107018.d 100 =C0107019.d 200 =C0107020.d

	Compound	5	10	20	50	100	200	Avg	3RSD
1)	S TCMX - SURROGATE	1.301	1.427	1.298	1.239	1.309	1.262	1.300	E7 4.71
2)	S DCB - SURROGATE	9.895	9.309	8.791	8.398	9.014	9.059	9.087	E6 5.07
3)	L1 1016			2.314	2.047	1.957	1.754	1.953	E5 12.72
4)	L1 1016 - {2}			6.355	5.339	5.248	4.980	5.378	E5 10.59
5)	L1 1016 - {3}			4.412	3.751	3.795	3.485	3.775	E5 10.34
6)	L1 1016 - {4}			2.820	2.432	2.392	2.220	2.408	E5 10.59
7)	L1 1016 - {5}			3.687	3.143	3.033	2.785	3.079	E5 12.27
8)	L7 1260			6.203	5.484	5.309	5.111	5.447	E5 8.24
9)	L7 1260 - {2}			7.193	6.408	6.392	5.901	6.388	E5 7.80
10)	L7 1260 - {3}			5.640	4.924	4.807	4.438	4.838	E5 10.44
11)	L7 1260 - {4}			6.020	5.347	5.269	4.879	5.273	E5 8.98
12)	L7 1260 - {5}			1.112	1.035	1.050	1.000	1.040	E6 4.35

(#) = Out of Range ### Number of calibration levels exceeded format ###

Data Path : C:\msdchem\1\data\010714\
 Data File : 00107019.d
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 08 Jan 2014 9:52 am
 Operator : JMB
 Sample : 1260/1016 100 Inst : DUAL ECD3
 Misc :
 ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: FRONT-1016.E
 Integration File signal 2: 1016-BACK.E
 Quant Time: Jan 08 12:48:21 2014
 Quant Method : C:\msdchem\1\methods\3-1260-010714C.M
 Quant Title : 1260/1016 01/07/14 12/05/13
 Q>Last Update : Wed Jan 08 12:48:21 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S TCMX - SU...	3.224	3.584	1877.6E6	1309.0E6	100.946	99.460
2) S DCB - SUR...	7.294	7.962	1414.8E6	901.4E6	101.858	99.073
Target Compounds						
3) L1 1016	3.800	4.561	77153077	19572027	103.553	89.759
4) L1 1016 - {2}	3.967	4.734	28138884	52477669	95.284	89.752
5) L1 1016 - {3}	4.173	4.846	88707336	37949321	100.869	92.986
6) L1 1016 - {4}	4.328	4.935	37771169	23916042	98.501	91.074
7) L1 1016 - {5}	4.601	5.237	47380079	30329276	95.221	88.608
Sum 1016			279.2E6	164.2E6	493.448	402.379
Average 1016					98.690	90.476
8) L7 1260	5.463	6.252	46001614	53086332	96.869	90.846
9) L7 1260 - {2}	5.800	6.389	138.3E6	63915443	98.291	93.987
10) L7 1260 - {3}	6.101	6.686	82536907	48074231	95.551	91.014
11) L7 1260 - {4}	6.279	6.871	88370673	52690878	100.740	92.710
12) L7 1260 - {5}	6.485	7.009	163.4E6	105.0E6	102.721	97.762
Sum 1260			538.5E6	322.8E6	494.172	466.317
Average 1260					98.834	93.263

(f)-RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

180

Method Path : C:\msdchem\1\methods\
 Method File : 3-1260-010714C.M
 Title : 1260/1016 01/07/14 12/05/13
 Last Update : Wed Jan 08 12:48:21 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\010714\C0107015.d
2	10	10	0	C:\msdchem\1\data\010714\C0107016.d
3	20	20	0	C:\msdchem\1\data\010714\C0107017.d
4	50	50	0	C:\msdchem\1\data\010714\C0107018.d
5	100	100	0	C:\msdchem\1\data\010714\C0107019.d
6	200	200	0	C:\msdchem\1\data\010714\C0107020.d
7	250	250	0	C:\msdchem\1\data\010714\C0107021.d

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Jan 08 12:48 2014	Jan 08 12:48 2014	08 Jan 2014 9:00 am
2	10	Jan 08 12:48 2014	Jan 08 12:48 2014	08 Jan 2014 9:13 am
3	20	Jan 08 12:48 2014	Jan 08 12:48 2014	08 Jan 2014 9:26 am
4	50	Jan 08 12:48 2014	Jan 08 12:48 2014	08 Jan 2014 9:39 am
5	100	Jan 08 12:48 2014	Jan 08 12:48 2014	08 Jan 2014 9:52 am
6	200	Jan 08 12:48 2014	Jan 08 12:48 2014	08 Jan 2014 10:05 am
7	250	Jan 08 12:48 2014	Jan 08 12:48 2014	08 Jan 2014 10:18 am

3-1260-010714C.M Wed Jan 08 12:49:24 2014

Method Path : C:\msdchem\1\methods\
 Method File : 3-1254-121913C.M
 Title : 1254 12/19/13 C9/17/13
 Last Update : Thu Dec 19 14:54:48 2013
 Response Via : Initial Calibration

Calibration Files

5 =C1219011.d 10 =C1219012.d 20 =C1219013.d
 50 =C1219014.d 100 =C1219015.d 200 =C1219016.d

	Compound	5	10	20	50	100	200	Avg	CRSD
1)	S TCMX - SURROGATE	2.098	2.041	1.989	1.971	1.898	1.884	1.961	E7 4.59
2)	S DCB - SURROGATE	1.581	1.523	1.443	1.433	1.383	1.424	1.456	E7 4.85
3)	L6 1254			7.687	6.908	6.665	6.439	6.806	E5 7.94
4)	L6 1254 - {2}			8.058	7.380	7.258	7.066	7.353	E5 5.73
5)	L6 1254 - {3}			1.480	1.249	1.246	1.213	1.279	E6 8.95
6)	L6 1254 - {4}			1.057	0.965	0.956	0.935	0.968	E6 5.39
7)	L6 1254 - {5}			1.449	1.329	1.323	1.283	1.327	E6 5.66

Signal #2 Calibration Files

5 =C1219011.d 10 =C1219012.d 20 =C1219013.d
 50 =C1219014.d 100 =C1219015.d 200 =C1219016.d

	Compound	5	10	20	50	100	200	Avg	CRSD
1)	S TCMX - SURROGATE	1.067	0.994	0.974	1.035	1.010	1.058	1.027	E7 3.38
2)	S DCB - SURROGATE	1.039	0.981	0.916	0.932	0.873	0.960	0.950	E7 5.46
3)	L6 1254			4.988	4.153	3.924	3.817	4.060	E5 14.35
4)	L6 1254 - {2}			4.507	3.742	3.527	3.437	3.677	E5 13.80
5)	L6 1254 - {3}			7.897	6.647	6.354	6.311	6.620	E5 11.52
6)	L6 1254 - {4}			3.869	3.309	3.047	2.944	3.196	E5 13.07
7)	L6 1254 - {5}			7.581	6.642	6.202	6.080	6.489	E5 10.25

(#) = Out of Range ### Number of calibration levels exceeded format ###

182

Method Path : C:\msdchem\1\methods\
 Method File : 3-1248-121913C.M
 Title : 1248 12/19/13 08/29/13
 Last Update : Thu Dec 19 17:01:44 2013
 Response Via : Initial Calibration

Calibration Files

5 =C1219011.d 10 =C1219012.d 20 =C1219013.d
 50 =C1219014.d 100 =C1219015.d 200 =C1219016.d

	Compound	5	10	20	50	100	200	Avg		URSD
1)	S TCMX - SURROGATE	2.098	2.041	1.989	1.971	1.898	1.884	1.961	E7	4.59
2)	S DCB - SURROGATE	1.581	1.523	1.443	1.433	1.383	1.424	1.456	E7	4.85
3)	L5 1248			4.026	4.392	4.166	4.365	4.413	E5	5.59
4)	L5 1248 - {2}			7.595	6.805	6.317	6.572	6.747	E5	7.52
5)	L5 1248 - {3}			4.910	4.419	4.119	4.282	4.386	E5	7.13
6)	L5 1248 - {4}			8.380	7.816	7.389	7.745	7.789	E5	4.72
7)	L5 1248 - {5}			7.003	6.693	6.364	6.728	6.679	E5	3.45

Signal #2 Calibration Files

5 =C1219011.d 10 =C1219012.d 20 =C1219013.d
 50 =C1219014.d 100 =C1219015.d 200 =C1219016.d

	Compound	5	10	20	50	100	200	Avg		URSD
1)	S TCMX - SURROGATE	1.067	0.994	0.974	1.035	1.010	1.058	1.027	E7	3.38
2)	S DCB - SURROGATE	1.039	0.981	0.916	0.932	0.873	0.960	0.950	E7	5.48
3)	L5 1248			3.666	3.158	2.831	2.745	3.005	E5	14.33
4)	L5 1248 - {2}			4.615	3.996	3.624	3.652	3.869	E5	11.91
5)	L5 1248 - {3}			5.082	4.350	3.933	3.997	4.238	E5	12.05
6)	L5 1248 - {4}			5.599	4.823	4.378	4.495	4.719	E5	11.23
7)	L5 1248 - {5}			5.578	4.612	4.182	4.194	4.549	E5	13.28

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method Path : C:\msdchem\1\methods\
 Method File : 3-1248-121913C.M
 Title : 1248 12/19/13 09/29/13
 Last Update : Thu Dec 19 17:01:46 2013
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\121913\C1219011.d
2	10	10	0	C:\msdchem\1\data\121913\C1219012.d
3	20	20	0	C:\msdchem\1\data\121913\C1219013.d
4	50	50	0	C:\msdchem\1\data\121913\C1219014.d
5	100	100	0	C:\msdchem\1\data\121913\C1219015.d
6	200	200	0	C:\msdchem\1\data\121913\C1219016.d
7	250	250	0	C:\msdchem\1\data\121913\C1219017.d

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Dec 19 17:01 2013	Dec 19 14:54 2013	19 Dec 2013 9:55 am
2	10	Dec 19 17:01 2013	Dec 19 14:54 2013	19 Dec 2013 10:08 am
3	20	Dec 19 17:01 2013	Dec 19 14:54 2013	19 Dec 2013 10:21 am
4	50	Dec 19 17:01 2013	Dec 19 14:54 2013	19 Dec 2013 10:33 am
5	100	Dec 19 17:01 2013	Dec 19 14:54 2013	19 Dec 2013 10:46 am
6	200	Dec 19 17:01 2013	Dec 19 14:54 2013	19 Dec 2013 10:59 am
7	250	Dec 19 17:01 2013	Dec 19 14:54 2013	19 Dec 2013 11:12 am

3-1248-121913C.M Thu Dec 19 17:01:59 2013



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7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0788
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD3	Calibration:	1400032
Lab File ID:	C0227004.d	Calibration Date:	12/19/13 00:00
Sequence:	S005588	Injection Date:	02/27/14
Lab Sample ID:	S005588-CCV1	Injection Time:	16:39

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	110				10.1	15
Aroclor-1016 [2C]	A	100	107				7.2	15
Aroclor-1260	A	100	109				8.9	15
Aroclor-1260 [2C]	A	100	103				3.1	15
Decachlorobiphenyl	A	100	100	1.392574E+07	1.3951E+07		0.2	
Decachlorobiphenyl [2C]	A	100	103	9086313	9398000		3.4	
Tetrachloro-m-xylene	A	100	106	1.843653E+07	1.8576E+07		6.2	
Tetrachloro-m-xylene [2C]	A	100	99.8	1.30018E+07	1.2979E+07		-0.2	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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401

185

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0788
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD3	Calibration:	1400032
Lab File ID:	C0227006.d	Calibration Date:	12/19/13 00:00
Sequence:	S005588	Injection Date:	02/27/14
Lab Sample ID:	S005588-CCV2	Injection Time:	17:05

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1248	A	100	111				10.8	15
Aroclor-1248 [2C]	A	100	105				5.0	15
Decachlorobiphenyl	A	100	104	1.392574E+07	1.4552E+07		4.5	
Decachlorobiphenyl [2C]	A	100	110	9086313	1E+07		10.1	
Tetrachloro-m-xylene	A	100	117	1.843653E+07	2.1469E+07		16.6	
Tetrachloro-m-xylene [2C]	A	100	111	1.30018E+07	1.4443E+07		11.1	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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404

186

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory Work Order: 14B0788
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Instrument ID: ECD3 Calibration: 1400032
Lab File ID: C0227028.d Calibration Date: 12/19/13 00.00
Sequence: S005588 Injection Date: 02/28/14
Lab Sample ID: S005588-CCV3 Injection Time: 00:25

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	108				8.1	15
Aroclor-1016 [2C]	A	100	105				5.4	15
Aroclor-1260	A	100	103				3.5	15
Aroclor-1260 [2C]	A	100	98.8				-1.2	15
Decachlorobiphenyl	A	100	95.1	1.392574E+07	1.3244E+07		-4.9	
Decachlorobiphenyl [2C]	A	100	105	9086313	9517000		4.7	
Tetrachloro-m-xylene	A	100	108	1.843653E+07	1.9916E+07		8.0	
Tetrachloro-m-xylene [2C]	A	100	99.2	1.30018E+07	1.2897E+07		-0.8	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data Path : C:\msdchem\1\data\022714A\
 Data File : C0227028.d
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 28 Feb 2014 0:25 am
 Operator : JMS
 Sample : 1260/1016 100 Inst : DUAL ECD3
 Misc :
 ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: FRONT-1016.E
 Integration File signal 2: 1016-BACK.E
 Quant Time: Feb 28 04:31:40 2014
 Quant Method : C:\msdchem\1\methods\3-1260-022714.M
 Quant Title : 1260/1016 01/07/14 12/05/13
 QLast Update : Wed Jan 08 12:48:21 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) S TCMX - SU...	3.162	3.525	1991.686	1289.7E6	108.025	99.200
2) S DC3 - SUR...	7.231	7.887	1324.486	951.7E6	95.106	104.740
Target Compounds						
3) L1 1016	3.732	4.493	82555838	20269220	114.567	103.792
4) L1 1016 - {2}	3.897	4.665	29632403	57186230	104.546	105.329
5) L1 1016 - {3}	4.101	4.777	94150784	40369385	107.880	107.480
6) L1 1016 - {4}	4.255	4.865	40403774	26137091	107.567	108.555
7) L1 1016 - {5}	4.525	5.166	50092201	30988478	105.962	100.630
Sum 1016			296.8E6	175.2E6	540.523	526.786
Average 1016					108.105	105.357
8) L7 1260	5.384	6.187	48072629	53916195	105.845	95.982
9) L7 1260 - {2}	5.720	6.327	143.8E6	63126905	105.482	98.828
10) L7 1260 - {3}	6.028	6.627	83119895	46803882	100.973	96.743
11) L7 1260 - {4}	6.208	6.814	88558054	51383902	102.308	97.442
12) L7 1260 - {5}	6.418	6.953	185.4E6	106.3E6	102.752	102.162
Sum 1260			549.0E6	321.5E6	517.361	494.156
Average 1260					103.472	98.931

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:
John Beane

FEB 28 2014

CHECKED BY:
John Beane

FEB 28 2014



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7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0788
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD3	Calibration:	1400032
Lab File ID:	C0227034.d	Calibration Date:	12/19/13 00:00
Sequence:	S005588	Injection Date:	02/28/14
Lab Sample ID:	S005588-CCV4	Injection Time:	01:42

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	50.0	55.5				11.1	15
Aroclor-1016 [2C]	A	50.0	56.4				12.9	15
Aroclor-1260	A	50.0	57.0				13.9	15
Aroclor-1260 [2C]	A	50.0	56.0				12.0 ✓	15
Decachlorobiphenyl	A	50.0	49.0	1.392574E+07	1.3658E+07		-1.9	
Decachlorobiphenyl [2C]	A	50.0	52.5	9086313	9536000		4.9	
Tetrachloro-m-xylene	A	50.0	56.3	1.843653E+07	2.075E+07		12.5	
Tetrachloro-m-xylene [2C]	A	50.0	50.7	1.30018E+07	1.3194E+07		1.5	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0788
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD3	Calibration:	1400032
Lab File ID:	C0227037.d	Calibration Date:	12/19/13 00:00
Sequence:	S005588	Injection Date:	02/28/14
Lab Sample ID:	S005588-CCV5	Injection Time:	04:59

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	110				9.6	15
Aroclor-1016 [2C]	A	100	107				7.2	15
Aroclor-1260	A	100	108				8.0	15
Aroclor-1260 [2C]	A	100	102				2.3	15
Decachlorobiphenyl	A	100	97.1	1.392574E+07	1.3528E+07		-2.9	
Decachlorobiphenyl [2C]	A	100	103	9085313	9321000		2.6	
Tetrachloro-m-xylene	A	100	109	1.843653E+07	2.0123E+07		9.1	
Tetrachloro-m-xylene [2C]	A	100	101	1.30018E+07	1.3088E+07		0.7	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6406 * TEL 413/525-2332

415

190

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	1460788
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD3	Calibration:	1400032
Lab File ID:	C0227054.d	Calibration Date:	12/19/13 00:00
Sequence:	S005588	Injection Date:	02/28/14
Lab Sample ID:	S005588-CCV6	Injection Time:	08:45

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	106				5.9	15
Aroclor-1016 [2C]	A	100	104				3.7	15
Aroclor-1260	A	100	107				6.9	15
Aroclor-1260 [2C]	A	100	103				3.5	15
Decachlorobiphenyl	A	100	98.9	1.392574E+07	1.3769E+07		-1.1	
Decachlorobiphenyl [2C]	A	100	105	9086313	9541000		5.0	
Tetrachloro-m-xylene	A	100	105	1.843653E+07	1.945E+07		5.5	
Tetrachloro-m-xylene [2C]	A	100	96.8	1.30018E+07	1.2581E+07		-3.2	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14B0788
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD3	Calibration:	1400032
Lab File ID:	C0227065.d	Calibration Date:	12/19/13 00:00
Sequence:	S005588	Injection Date:	02/28/14
Lab Sample ID:	S005588-CCV7	Injection Time:	11:08

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	50.0	55.7				11.3	15
Aroclor-1016 [2C]	A	50.0	57.3				14.6	15
Aroclor-1260	A	50.0	55.6				11.3	15
Aroclor-1260 [2C]	A	50.0	55.0				10.1	15
Decachlorobiphenyl	A	50.0	49.7	1.392574E+07	1.383E+07		-0.7	✓ 15
Decachlorobiphenyl [2C]	A	50.0	51.1	9086313	9280000		2.1	
Tetrachloro-m-xylene	A	50.0	54.6	1.843653E+07	2.0138E+07		9.2	
Tetrachloro-m-xylene [2C]	A	50.0	49.4	1.30018E+07	1.2838E+07		-1.3	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data Validation Report

**WSP Group
5140 Commercial Dr.
Yorkville, New York**

SDG# 14C0012



ECT.CON INC.

Environmental and Computer
Technology Consultants

115 Riverview Bend South Unit 2144
Palm Coast, FL 32137
Office (386) 283-9360
Cell (724) 288-1971
e-mail: ectconinc@mac.com

DATA VALIDATION REPORT

Project Name: 5140 Commercial Dr. Yorkville, NY
 SDG #: 14C0012

 Performed for: WSP

 Laboratory: Con-test Analytical Laboratory

 Validation Performed by: ECT.CON INC
 Validation Guidance: USEPA CLP National Functional Guidelines for Organic Data Review (NFG)

 Validation Report Date: 5/2/14

Samples/Matrix:

	Sample Date	Sample ID	Laboratory ID	Matrix
1	02/26/14	Berm-0N-195E	14C0012-01	Solid
2	02/26/14	Berm-10N-195E	14C0012-02	Solid
3	02/26/14	Berm-5N-197E	14C0012-03	Solid
4	02/26/14	Berm-5N-192E	14C0012-04	Solid
5	02/26/14	Berm-5N-200E	14C0012-05	Solid
6	02/27/14	Exc-0N-6E-7ft	14C0012-06	Solid
7	02/27/14	Exc-0N-6E-13ft	14C0012-07	Solid

This sample set consists of the following:

Field Samples :	7
Trip Blanks :	0
Equipment Blanks :	0
Field Blanks :	0
Field Duplicates:	0

Analytical data in this report were reviewed to determine analytical limitations of the data based on specific quality control criteria. This review is performed on a laboratory signed data package. The laboratory signature indicates that the laboratory has reviewed and has certified that the information provided in the data package are correct and complete.

The results of the review are an interpretation of the reported quality control information provided by the laboratory in comparison to the specified validation criteria for the project. Laboratory calculations have been verified as part of the validation. Form 1's and/or analytical results sheets are annotated with the results of the validation.

This evaluation was conducted in accordance with the requested validation guidelines, project requirement and the analytical method. Findings from this validation should be considered when using the analytical data.

The organic findings are based on the validation of the following:

- Sample Preservation
- Holding Times
- Initial Calibration
- Continuing Calibration
- Blanks (lab and field)
- System Monitoring Compounds
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- Laboratory Control Sample (LCS)
- Target Compound Identification
- Compound Quantification and Quantitation Limits
- System Performance

This report consists of the validation findings. This is followed by annotated Form 1's. The final section of the report is supporting documentation. This consists of the Chain of Custody, laboratory case narrative and the validation worksheets.

4

Project Number: 14C0012

Method Number **Description**
 SW-846 8082 Polychlorinated Biphenyls (PCBs)

					PCB
	Sample Date	Sample ID	Laboratory ID	Matrix	8082
1	02/26/14	Berm-0N-195E	14C0012-01	Solid	X
2	02/26/14	Berm-10N-195E	14C0012-02	Solid	X
3	02/26/14	Berm-5N-197E	14C0012-03	Solid	X
4	02/26/14	Berm-5N-192E	14C0012-04	Solid	X
5	02/26/14	Berm-5N-200E	14C0012-05	Solid	X
6	02/27/14	Exc-0N-6E-7ft	14C0012-06	Solid	X
7	02/27/14	Exc-0N-6E-13ft	14C0012-07	Solid	X

7

FINDINGS

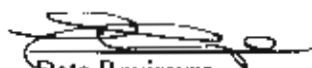
POLYCHLORINATED BIPHENYLS

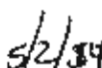
1. Positive results less than the reporting limits were qualified as estimated, "J", due to uncertainty near the detection limit.
2. The laboratory noted that the sample fingerprint did not exactly match the standard fingerprint for Aroclor 1242 in sample Berm-5N-192E. The positive result for Aroclor 1242 in sample Berm-5N-192E was qualified as estimated, "J."

NOTES**POLYCHLORINATED BIPHENYLS**

- A. A matrix spike/matrix spike duplicate was not analyzed with this sample set. A laboratory control sample was analyzed and was compliant. Data were not qualified on this basis.
- B. On instrument ECD 9's analytical sequence, standards for Aroclor 1232, 1221, 1262, and 1268 are listed as part of the sequence. The quantitation reports for these compounds were not included in the data package. This is noted for completeness only. Data were not qualified on this basis.
- C. The following samples were analyzed and reported at the listed dilution factors due to the presence of target compounds and/or matrix interferences. Data were not qualified on this basis.

Sample	Lab ID	Dilution
Berm-5N-197E	14C0012-03	10X
Berm-5N-192E	14C0012-04	10X
Exc-0N-6E-7ft	14C0012-06	10X
Exc-0N-6E-13ft	14C0012-07	20X


Data Reviewer


Date

Glossary of Data Qualifiers

U	Not Detected	The associated number indicates approximate sample concentration necessary to be detected.
UJ	Not Detected	Quantitation limit may be inaccurate or imprecise.
J	Analyte Present	Reported value is an estimated quantity.
N	Consider Present	Tentative identification. Special methods may be needed to confirm its presence or absence in future sampling efforts.
R	Unusable Result	Analyte may or may not be present in the sample.
UR	Unusable Result	Analyte may or may not be present in the sample.



ECT,CON INC.

Environmental and Computer
Technology Consultants

Annotated Form 1's (Spreadsheet)



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**1 - FORM I
ANALYSIS DATA SHEET**

Berm-0N-195E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0012
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0012-01 File ID: 10303027.d
Sampled: 02/26/14 16:00 Prepared: 03/03/14 10:55 Analyzed: 03/03/14 14:41
Solids: 80.00 Preparation: SW-846 3546 Dilution: 1
Batch: B091165 Sequence: S005593 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0078	0.025	
11104-28-2	Aroclor-1221		0.024	0.025	
11141-16-5	Aroclor-1232		0.016	0.025	
53469-21-9	Aroclor-1242		0.013	0.025	
12672-29-6	Aroclor-1248		0.014	0.025	
11097-69-1	Aroclor-1254	0.023 J	0.011	0.025	
11096-82-5	Aroclor-1260 [2C]	0.064	0.012	0.025	
37324-23-5	Aroclor-1262		0.010	0.025	
11100-14-4	Aroclor-1268		0.015	0.025	

* Values outside of QC limits

11/11/14
5/21/14

1 - FORM I

ANALYSIS DATA SHEET

Berm-10N-195E

Laboratory: Con-Test Analytical Laboratory SQG: 14C0012
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14C0012-02 File ID: I0303028.d
 Sampled: 02/26/14 16:10 Prepared: 03/03/14 10:55 Analyzed: 03/03/14 14:54
 Solids: 85.80 Preparation: SW-846 3546 Dilution: 1
 Batch: B091165 Sequence: S005593 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0072	0.023	
11104-28-2	Aroclor-1221		0.023	0.023	
11141-16-5	Aroclor-1232		0.014	0.023	
53469-21-9	Aroclor-1242		0.012	0.023	
12672-29-6	Aroclor-1248		0.014	0.023	
11097-69-1	Aroclor-1254		0.010	0.023	
11096-82-5	Aroclor-1260		0.011	0.023	
37324-23-5	Aroclor-1262		0.0096	0.023	
11100-14-4	Aroclor-1268		0.014	0.023	

* Values outside of QC limits

666
5/2/14

1 - FORM I

ANALYSIS DATA SHEET

Berm-5N-197E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0012
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0012-03 File ID: I0303068.d
Sampled: 02/25/14 16:30 Prepared: 03/03/14 10:55 Analyzed: 03/04/14 09:26
Solids: 84.40 Preparation: SW-846 3546 Dilution: 10
Batch: B091165 Sequence: S005593 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.073	0.24	
11104-28-2	Aroclor-1221		0.23	0.24	
11141-16-5	Aroclor-1232		0.15	0.24	
53469-21-9	Aroclor-1242		0.12	0.24	
12672-29-6	Aroclor-1248		0.14	0.24	
11097-69-1	Aroclor-1254	0.30	0.10	0.24	
11096-82-5	Aroclor-1260	1.0	0.11	0.24	
37324-23-5	Aroclor-1262		0.097	0.24	
11100-14-4	Aroclor-1268		0.14	0.24	

* Values outside of QC limits

4/14/14
S005593

1 - FORM I

ANALYSIS DATA SHEET

Berm-5N-192E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0012
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0012-04 File ID: 10303062.d
Sampled: 02/26/14 16:20 Prepared: 03/03/14 10:55 Analyzed: 03/04/14 07:02
Solids: 84.90 Preparation: SW-846 3546 Dilution: 10
Batch: B091165 Sequence: S005593 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.072	0.23	
11104-28-2	Aroclor-1221		0.23	0.23	
11141-16-5	Aroclor-1232		0.14	0.23	
53469-21-9	Aroclor-1242	1.2 J	0.12	0.23	0.04
12672-29-6	Aroclor-1248		0.14	0.23	
11097-69-1	Aroclor-1254 [2C]	1.0	0.10	0.23	
11096-82-5	Aroclor-1260	1.4	0.11	0.23	
37324-23-5	Aroclor-1262		0.096	0.23	
11100-14-4	Aroclor-1268		0.14	0.23	

* Values outside of QC limits

11/14/14



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60

13

1 - FORM I ANALYSIS DATA SHEET

Berm-5N-200E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0012
Client: WSP Project: 514D Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0012-05 File ID: 103D3031.d
Sampled: 02/26/14 16:40 Prepared: 03/03/14 10:55 Analyzed: 03/03/14 15:31
Solids: 78.30 Preparation: SW-846 3546 Dilution: 1
Batch: B091165 Sequence: S005593 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0079	0.026	
11104-28-2	Aroclor-1221		0.025	0.026	
11141-16-5	Aroclor-1232		0.016	0.026	
53469-21-9	Aroclor-1242		0.013	0.026	
12672-29-6	Aroclor-1248		0.015	0.026	
11097-69-1	Aroclor-1254		0.011	0.026	
11096-82-5	Aroclor-1260		0.012	0.026	
37324-23-5	Aroclor-1262		0.010	0.026	
11100-14-4	Aroclor-1268		0.015	0.026	

* Values outside of QC limits

UW
5/21/14



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**1 - FORM I
ANALYSIS DATA SHEET****Exc-0N-6E-7ft**

Laboratory: Con-Test Analytical Laboratory SDG: 14C0012
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0012-06 File ID: I0303063.d
Sampled: 02/27/14 10:45 Prepared: 03/03/14 10:55 Analyzed: 03/04/14 07:15
Solids: 87.40 Preparation: SW-846 3546 Dilution: 10
Batch: B091165 Sequence: S005593 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.070	0.23	
11104-28-2	Aroclor-1221		0.22	0.23	
11141-16-5	Aroclor-1232		0.14	0.23	
53469-21-9	Aroclor-1242		0.12	0.23	
12672-29-6	Aroclor-1248		0.13	0.23	
11097-69-1	Aroclor-1254	0.59	0.097	0.23	
11096-82-5	Aroclor-1260	1.5	0.11	0.23	
37324-23-5	Aroclor-1262		0.093	0.23	
11100-14-4	Aroclor-1268		0.14	0.23	

* Values outside of QC limits

14
3/12/14



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70

15

1 - FORM I ANALYSIS DATA SHEET

Exc-0N-6E-13ft

Laboratory: Con-Test Analytical Laboratory SDG: 14C0012
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0012-07 File ID: 10303064.d
Sampled: 02/27/14 13:30 Prepared: 03/03/14 10:55 Analyzed: 03/04/14 07:27
Solids: 87.10 Preparation: SW-846 3546 Dilution: 20
Batch: 8091165 Sequence: S005593 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.14	0.46	
11104-28-2	Aroclor-1221		0.45	0.46	
11141-16-5	Aroclor-1232		0.28	0.46	
53469-21-9	Aroclor-1242 [2C]	0.46	0.23	0.46	
12672-29-6	Aroclor-1248		0.27	0.46	
11097-69-1	Aroclor-1254	1.5	0.20	0.46	
11096-82-5	Aroclor-1260	4.1	0.22	0.46	
37324-23-5	Aroclor-1262		0.19	0.46	
11100-14-4	Aroclor-1268		0.28	0.46	

* Values outside of QC limits

10/3/14
S/amy



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

249

16

1 - FORM I
ANALYSIS DATA SHEET
Berm-0N-195E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0012
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0012-01
Sampled: 02/26/14 16:00
% Solids: 80.00

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	80.0			1		B091172	03/04/14 07:07	SM 2540C

02-
5/1/14



250

17

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1 - FORM I
ANALYSIS DATA SHEET
Berm-10N-195E

Laboratory: Con-Test Analytical Laboratory

SDG: 14C0012

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14C0012-02

Sampled: 02/26/14 16:10

% Solids: 85.80

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	85.8			1		6091172	03/04/14 07:07	SM 2540G

LW:
5/2/14

18

251



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1 - FORM I
ANALYSIS DATA SHEET
Berm-5N-197E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0012
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0012-03
Sampled: 02/26/14 16:30
% Solids: 84.40

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	84.4			1		B091172	03/04/14 07:07	SM 2540G

WSP
3/26/14



252

19

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1 - FORM I
ANALYSIS DATA SHEET
Berm-5N-192E

Laboratory: Con-Test Analytical Laboratory

SDG: 14C0012

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14C0012-04

Sampled: 02/26/14 16:20

% Solids: 84.90

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	84.9			1		B091172	03/04/14 07:07	SM 2540G

11/6/14
SPL/14



253

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1 - FORM I
ANALYSIS DATA SHEET
Berm-5N-200E

Laboratory: Con-Test Analytical Laboratory

SDG: 14C0012

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14C0012-05

Sampled: 02/26/14 16:40

% Solids: 78.30

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	78.3			1		B091172	03/04/14 07:07	SM 2540G

445
5/12/14



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1 - FORM I
ANALYSIS DATA SHEET

Exc-0N-6E-7ft

Laboratory: Con-Test Analytical Laboratory

SDG: 14C0012

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14C0012-06

Sampled: 02/27/14 10:45

% Solids: 87.40

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	87.4			1		B091172	03/04/14 07:07	SM 2540G

WSP
3/2/14



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255

22

1 - FORM I
ANALYSIS DATA SHEET
Exc-DN-6E-13ft

Laboratory: Con-Test Analytical Laboratory SDG: 14C0012
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0012-07
Sampled: 02/27/14 13:30
% Solids: 87.10

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	87.1			1		B091172	03/04/14 07:07	SM 2540G

14C0012-07
3/4/14



ECT.CON INC.

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Technology Consultants

Support Documentation

Laboratory Case Narrative

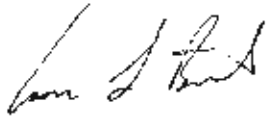
March 4, 2014

Dave Bouchard
WSP
5 Sullivan Street
Cazenovia, NY 13035

Project Location: 5140 Site - Yorkville, NY
Client Job Number:
Project Number: 0032927/005
Laboratory Work Order Number: 14C0012

Enclosed are results of analyses for samples received by the laboratory on March 3, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Aaron L. Benoit
Project Manager

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

WSP
5 Sullivan Street
Cazenovia, NY 13035
ATTN: Dave Bruchard

REPORT DATE: 3/4/2014

PURCHASE ORDER NUMBER

PROJECT NUMBER 0032927/005

ANALYTICAL SUMMARY

WORK ORDER NUMBER 14C0012

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

PROJECT LOCATION 5140 Site - Yorkville, NY

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Berm-0N-195E	14C0012-01	Soil		SM 2540G SW-B46 B082A	
Berm-10N-195E	14C0012-02	Soil		SM 2540G SW-B46 B082A	
Berm-5N-197E	14C0012-03	Soil		SM 2540G SW-B46 B082A	
Berm-5N-192E	14C0012-04	Soil		SM 2540G SW-B46 B082A	
Berm-5N-200E	14C0012-05	Soil		SM 2540G SW-B46 B082A	
Exc-0N-6E-7F	14C0012-06	Soil		SM 2540G SW-B46 B082A	
Exc-0N-6E-13D	14C0012-07	Soil		SM 2540G SW-B46 B082A	

CASE NARRATIVE SUMMARY

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

SW-846 8092A

Qualifications:

Sample fingerprint does not match standard exactly. Sample was quantified against the closest matching standard.

Analyte & Sample(s) Qualified:

Aroclor-1242, Aroclor-1242 [ZC]

14C0012-04[Benth-SN-192E]

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

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



Daren J. Damhorgan
Laboratory Manager

Chain of Custody

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-5405
www.contestlabs.com



Page 1 of 2

Sample Receipt Checklist



CLIENT NAME: WSP RECEIVED BY: CEC DATE: 3/3/14

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples?

If not, explain:

3) Are all the samples in good condition?

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank 2.0 Temperature °C by Temp gun

5) Are there Dissolved samples for the lab to filter?

Who was notified Date Time

6) Are there any RUSH or SHORT HOLDING TIME samples?

Who was notified RJ Date 3/3/14 Time 0930

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No

(Walk-in clients only) if not already approved

Client Signature:

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	<u>7</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl # Methanol
Bisulfate # DI Water
Thiosulfate Unpreserved

Time and Date Frozen:

Page 2 of 2

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	NA	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements?

Date/Time:

Doc #277 Rev, 4 August 2013

Log-In Technician Initials:

Date/Time:

CE C

3/3/14

Worksheets

PERCENT SOLIDS

Preservative - Cool < 4C
Hold Time - 7 days

Sample Date	Sample ID	Laboratory ID	Matrix	Preservative	Days to Analysis	Date Analyzed	Dish Wgt	Sample Mass Wet	Sample Mass Dry	Calcd %S	Rptd %S
1 02/26/14	Berm-0N-195E	14C0012-01	Solid	Cool <4C	5	3/3/14	1.039	9.328	7.672	80.0	80
2 02/26/14	Berm-10N-195E	14C0012-02	Solid	Cool <4C	5	3/3/14	1.049	11.355	9.889	85.8	85.8
3 02/26/14	Berm-5N-197E	14C0012-03	Solid	Cool <4C	5	3/3/14	1.052	10.916	9.381	84.4	84.4
4 02/26/14	Berm-5N-192E	14C0012-04	Solid	Cool <4C	5	3/3/14	1.052	10.076	8.71	84.9	84.9
5 02/26/14	Berm-5N-200E	14C0012-05	Solid	Cool <4C	5	3/3/14	1.05	9.261	7.478	78.3	78.3
6 02/27/14	Exc-0N-6E-7R	14C0012-06	Solid	Cool <4C	4	3/3/14	1.036	10.064	8.925	87.4	87.4
7 02/27/14	Exc-0N-6E-13R	14C0012-07	Solid	Cool <4C	4	3/3/14	1.043	11.501	10.157	87.1	87.1

Berm-0N-195E

Sample 80
Dup 81.3
RPD -1.612
RPD Rpld 1.61
RPD = ((1CS-LCD)/((1CS+1CSD)/2))*100

CON-TEST LABORATORY

PERCENT SOLIDS

analyst	TEMP IN: 104 °C sample#	dish	dish&sample	time	date	sample	dried dish&sample	time	date	dried sample	% solid
	B091172										
DMP	14C0012-01	1.039 g	9.328 g	12:00 g	03/03/2014	8.2890	7.672 g	07:03 g	03/04/2014	6.6330	80.0
DMP	14C0012-02	1.049 g	11.355 g	12:01 g	03/03/2014	10.3060	9.889 g	07:03 g	03/04/2014	8.8400	85.8
DMP	14C0012-03	1.052 g	10.916 g	12:02 g	03/03/2014	9.8640	9.381 g	07:03 g	03/04/2014	8.3290	84.4
DMP	14C0012-04	1.052 g	10.076 g	12:02 g	03/03/2014	9.0240	8.710 g	07:03 g	03/04/2014	7.6580	84.9
DMP	14C0012-05	1.050 g	9.261 g	12:03 g	03/03/2014	8.2110	7.478 g	07:03 g	03/04/2014	6.4280	78.3
DMP	14C0012-06	1.036 g	10.064 g	12:04 g	03/03/2014	9.0280	8.925 g	07:04 g	03/04/2014	7.8890	87.4
DMP	14C0012-07	1.043 g	11.501 g	12:04 g	03/03/2014	10.4580	10.157 g	07:04 g	03/04/2014	9.1140	87.1
DMP	DUP-14C0012-01	1.045 g	12.575 g	12:05 g	03/03/2014	11.5300	10.420 g	07:04 g	03/04/2014	9.3750	81.3



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256

35

DUPLICATES

Berm-0N-195E

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14C0012
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Laboratory ID:	B091172-DUP1
Batch:	B091172	Initial/Final:	5 g / 5 g
Preparation:	% Solids	Analysis:	SM 2540G
% Solids:	80.00		

ANALYTE	SAMPLE CONCENTRATION (% Wt)	DUPLICATE CONCENTRATION (% Wt)	RPD %	Q	CONTROL LIMIT
% Solids	80.0	81.3	1.61		20

Hold Times for PCBs - 4003

Preparation: Good - JC
 End Time: 1 day - no further action is required; no lab. tickets from this amount and date

Sample Name	Sample ID	Lab/Storage ID	Matrix	Preparation	Days to Turnover	Days to Analysis	Date Analyzed	Lab	Prep Batch
0225-14	0225-14	142507502	Solid	OK	2	2	10/11/03	1X	10/11/03
0225-14	0225-14	142507503	Solid	OK	2	2	10/11/03	1X	10/11/03
0225-14	0225-14	142507504	Solid	OK	2	2	10/11/03	1X	10/11/03
0225-14	0225-14	142507505	Solid	OK	2	2	10/11/03	1X	10/11/03
0225-14	0225-14	142507506	Solid	OK	2	2	10/11/03	1X	10/11/03
0225-14	0225-14	142507507	Solid	OK	2	2	10/11/03	1X	10/11/03

Calculations for PCBs - 4003

LOSALCO 1 day - no further action is required; no lab. tickets from this amount and date

Sample	Lab/Storage ID	Preparation	Days to Turnover	Days to Analysis	Date Analyzed	Lab	Prep Batch
0225-14	0225-14	142507502	OK	2	2	10/11/03	1X
0225-14	0225-14	142507503	OK	2	2	10/11/03	1X
0225-14	0225-14	142507504	OK	2	2	10/11/03	1X
0225-14	0225-14	142507505	OK	2	2	10/11/03	1X
0225-14	0225-14	142507506	OK	2	2	10/11/03	1X
0225-14	0225-14	142507507	OK	2	2	10/11/03	1X

LOSALCO 1 day - no further action is required; no lab. tickets from this amount and date

MSHISU 1 day - no further action is required; no lab. tickets from this amount and date

Sample	Lab/Storage ID	Preparation	Days to Turnover	Days to Analysis	Date Analyzed	Lab	Prep Batch
0225-14	0225-14	142507502	OK	2	2	10/11/03	1X
0225-14	0225-14	142507503	OK	2	2	10/11/03	1X
0225-14	0225-14	142507504	OK	2	2	10/11/03	1X
0225-14	0225-14	142507505	OK	2	2	10/11/03	1X
0225-14	0225-14	142507506	OK	2	2	10/11/03	1X
0225-14	0225-14	142507507	OK	2	2	10/11/03	1X

Conclusion

$$N^{\pm} \chi_{\pm} = \chi_{\pm} \pm W_{\pm} \left[\pm \frac{1}{2} (K_{\pm} + 1) \right] \text{ and } W_{\pm} = \chi_{\pm} \left[\frac{1}{2} (2M_{\pm} \pm 1) \right] \text{ and } K_{\pm} = \frac{1}{2} (2M_{\pm} \pm 1)$$

000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	

Initial Collaboration Challenge

[illegible]

Conductance Calibration Calibration Check

[illegible]



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2 - FORM II

SYSTEM MONITORING COMPOUND SUMMARY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	SDG:	14C0012
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Instrument:	ECD 9

	DCB 1 (30% - 150%)	DCB 2 (30% - 150%)	TCX 1 (30% - 150%)	TCX 2 (30% - 150%)
14C0012-01	84.8	81.4	78.4	80.2
14C0012-02	86.2	86.1	54.5	56.8
14C0012-03	104	104	98.8	101
14C0012-04	107	111	90.6	92.9
14C0012-05	89.7	90.2	86.3	88.3
14C0012-06	93.3	93.4	86.0	88.4
14C0012-07	103	124	85.2	92.9
B091165-BLK1	105	104	95.9	98.1
B091165-BS1	103	103	96.8	102
B091165-BSD1	99.0	99.7	92.2	86.9

40

Data Path : C:\msdchem\1\data\030314\
 Data File : I0303027.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 3 Mar 2014 2:41 pm
 Operator : JMB
 Sample : 14C0012-01 Inst : ECD 9
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Mar 04 05:53:39 2014
 Quant Method : C:\msdchem\1\methods\PCF Methods\9-1260-022014C.M
 Quant Title : 1260/1016 02/20/14 12/05/13
 QLast Update : Fri Feb 21 09:11:02 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.881	3.279	3473.626	1642.426	156.807	160.445
Spiked Amount	200.000		Recovery	=	78.401	80.22%
2) S Decachlor...	6.958	7.607	3194.426	1387.226	169.512	162.761
Spiked Amount	200.000		Recovery	=	84.761	81.38%
Target Compounds						
3) L1 1016(1)	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016(2)	0.000	0.000	0	0	N.D.	N.D.
5) L1 1016(3)	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016(4)	0.000	0.000	0	0	N.D.	N.D.
7) L1 1016(5)	4.195	4.877	3515333	1200516	6.766	4.705 #
Sum 1016			3515333	1200516	6.766	4.705
Average 1016					6.766	4.705
8) L7 1260(1)	5.141	5.915	56559325	27578354	56.076	50.627
9) L7 1260(2)	5.363	6.069	90300413	36139954	57.127	55.881
10) L7 1260(3)	5.677	6.389	43694616	22314131	46.488	45.553
11) L7 1260(4)	5.874	6.584	42772080	25569976	41.315	46.170
12) L7 1260(5)	6.104	6.732	110.826	64725904	48.229	56.536
Sum 1260			344.126	176.326	249.234	254.766
Average 1260					✓ 49.847	50.953

(#)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\msdchem\1\data\030314\
 Data File : I0303063.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 4 Mar 2014 7:15 am
 Operator : JMB
 Sample : 14COC12-0601CX Test : ECD 9
 Misc :
 ALS Vial : 63 Sample Multiplier: 1

Integration File signal 1: F-1254.E
 Integration File signal 2: B-1254.E
 Quant Time: Mar 04 09:10:50 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\9-1254-022014.M
 Quant Title : 1254 01/07/14 09/17/13
 Qlast Update : Fri Feb 21 09:55:07 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.881	3.279	360.9E6	101.0E6	17.193	17.685
Spiked Amount	200.000		Recovery	=	8.60%	8.84%
2) S Decachlor...	6.958	7.607	370.7E6	159.2E6	19.669	18.680
Spiked Amount	200.000		Recovery	=	9.83%	9.34%
Target Compounds						
3) L6 1254(1)	4.487	5.221	47702982	25246131	77.080	63.025
4) L6 1254(2)	4.687	5.371	57004212	23083338	51.816	49.586
5) L6 1254(3)	4.999	5.759	55623001	27218298	49.033	39.739
6) L6 1254(4)	5.221	5.937	25245938	6792678	29.171	14.096 #
7) L6 1254(5)	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254			185.6E6	82340445	✓ 107.100	166.446
Average 1254					51.775	41.612

CHECKED BY:
 KARRISSA CHAN
 MAR 04 2014

(f)=RT Delta > 1/2 Window (#)-Amounts differ by > 25. (m)=manual int.

54/60

42

Data Path : C:\msdchem\1\data\030314\
 Data File : I0303062.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 4 Mar 2014 7:02 am
 Operator : JMB
 Sample : 14C0012-04@10X Inst : ECD 9
 Misc :
 ALS Vial : 62 Sample Multiplier: 1

Integration File signal 1: S-1242.E
 Integration File signal 2: B-1242.E
 Quant Time: Mar 04 09:09:49 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\9-1242-022014.m
 Quant Title : 1242 01/07/14 08/27/13
 QLast Update : Fri Feb 21 09:56:19 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.882	3.279	401.6E6	190.2E6	18.130	18.583
Spiked Amount	200.000		Recovery	=	9.061	9.291
2) S Decachlor...	6.958	7.607	404.1E6	188.9E6	21.445	22.161
Spiked Amount	200.000		Recovery	=	10.721	11.081
Target Compounds						
3) L4 1242{1}	3.431	4.014	34327032	12204330	59.953	55.486
4) L4 1242{2}	3.588	4.219	14295189	7489368	66.328	58.051
5) L4 1242{3}	3.787	4.388	85453845	41868950	127.719	114.587
6) L4 1242{4}	3.887	4.497	55743566	25805515	116.700	99.733
7) L4 1242{5}	3.934	4.582	37573001	17232075	130.446	107.977
Sum 1242			227.4E6	104.6E6	50.145	435.834
Average 1242					✓100.229	87.167

CHECKED BY:
 MARISA CAGAN
 MAR 04 2014

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

42/54/100



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219

43

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Benn-0N-195E

SW-846 8082A

Lab Sample ID: 14C0012-01 Date(s) Analyzed: 03/03/2014 03/03/2014
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	0.023	
	2	0.00	0.00	0.00	0.021	9.5
Aroclor-1260	1	0.00	0.00	0.00	0.062	
	2	0.00	0.00	0.00	0.064	2.7



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***Berm-5N-197E**

Lab Sample ID: 14CD012-03 Date(s) Analyzed: 03/04/2014 03/04/2014
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	0.30	
	2	0.00	0.00	0.00	0.25	18.5
Aroclor-1260	1	0.00	0.00	0.00	1.0	
	2	0.00	0.00	0.00	1.0	0.1

✓



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221

45

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

Berm-5N-192E

Lab Sample ID: 14C0012-04 Date(s) Analyzed: 03/04/2014 03/04/2014

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1242	1	0.00	0.00	0.00	1.2	
	2	0.00	0.00	0.00	1.0	15.7
Aroclor-1254	1	0.00	0.00	0.00	0.85	
	2	0.00	0.00	0.00	1.0	16.5
Aroclor-1260	1	0.00	0.00	0.00	1.4	
	2	0.00	0.00	0.00	1.4	2.1

✓



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222

4/6

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

Exc-0N-6E-7R

Lab Sample ID: 14C0012-06 Date(s) Analyzed: 03/04/2014 03/04/2014

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	0.59	
	2	0.00	0.00	0.00	0.47	22.1
Aroclor-1260	1	0.00	0.00	0.00	1.5	
	2	0.00	0.00	0.00	1.5	2.6



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IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Exc-0N-6E-13ft

SW-846 8082A

Lab Sample ID: 14C0012-07 Date(s) Analyzed: 03/04/2014 03/04/2014
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1242	1	0.00	0.00	0.00	0.41	
	2	0.00	0.00	0.00	0.46	11.3
Aroclor-1254	1	0.00	0.00	0.00	1.5	
	2	0.00	0.00	0.00	1.3	11.6
Aroclor-1260	1	0.00	0.00	0.00	4.1	
	2	0.00	0.00	0.00	4.0	2.5



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224

4/8

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

LCS

Lab Sample ID: B091165-BS1 Date(s) Analyzed: 03/03/2014 03/03/2014
Instrument ID (1): ECD 9 Instrument ID (2): ECO 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.20	
	2	0.00	0.00	0.00	0.20	2
Aroclor-1260	1	0.00	0.00	0.00	0.20	
	2	0.00	0.00	0.00	0.19	6

✓



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225

49

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

LCS Dup

Lab Sample ID: B091165-BSD1 Date(s) Analyzed: 03/03/2014 03/03/2014
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.19	
	2	0.00	0.00	0.00	0.20	4
Aroclor-1260	1	0.00	0.00	0.00	0.20	
	2	0.00	0.00	0.00	0.19	5

✓



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3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory

Work Order: 14C0012

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Preparation: SW-846 3546

Batch: B091165

Laboratory ID: B091165-BS1

Column: 1

Initial/Final: 10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	0.200	0.20	98.2	40 - 140
Aroclor-1260	0.200	0.20	100 ✓	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016	0.200	0.19	96.4	1.79	30	40 - 140
Aroclor-1260	0.200	0.20	99.3	1.03	30	40 - 140

✓

✓

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory

Work Order: 14C0012

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Preparation: SW-846 3546

Batch: B091165

Laboratory ID: B091165-BS1

Column: 2

Initial/Final: 10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	0.200	0.20	102	40 - 140
Aroclor-1260 [2C]	0.200	0.19	94.8	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016 [2C]	0.200	0.20	100	1.86	30	40 - 140
Aroclor-1260 [2C]	0.200	0.19	95.4	0.633	30	40 - 140



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1 - FORM I
ANALYSIS DATA SHEET
LCS

Laboratory: Con-Test Analytical Laboratory Work Order: 14C0012
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091165-BS1 File ID: I0303025.d
Sampled: Prepared: 03/03/14 10:55 Analyzed: 03/03/14 14:17
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091165 Sequence: S005593 Calibration: 1400043 Instrument: ECD 9
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.20	0.031	0.10	
11096-82-5	Aroclor-1260	0.20	0.048	0.10	



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1 - FORM I ANALYSIS DATA SHEET

LCS

Laboratory: Con-Test Analytical Laboratory Work Order: 14C0012
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091165-BS1 File ID: I0303025.d
Sampled: Prepared: 03/03/14 10:55 Analyzed: 03/03/14 14:17
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091165 Sequence: S005593 Calibration: 1400043 Instrument: ECD 9
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.20	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.19	0.048	0.10	

54

Data Path : C:\msdchem\1\data\030314\
 Data File : 10303026.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 3 Mar 2014 2:29 pm
 Operator : JLB
 Sample : B091165-BSD105X Inst : ECD 9
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Mar 04 05:53:36 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\9-1260-022014C.M
 Quant Title : 1260/1016 02/20/14 12/05/13
 QLast Update : Fri Feb 21 09:11:02 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachloro...	2.881	3.279	817.0E6	397.0E6	36.882	38.779
Spiked Amount	200.000		Recovery	=	18.44%	19.39%
2) S Decachloro...	6.959	7.607	746.3E6	339.8E6	39.600	39.871
Spiked Amount	200.000		Recovery	=	19.80%	19.94%
Target Compounds						
3) L1 1016(1)	3.430	4.218	30764113	6316521	38.475	41.837
4) L1 1016(2)	3.786	4.386	35594268	18005383	37.751	39.980
5) L1 1016(3)	3.885	4.497	26357614	1658525	38.345	38.343
6) L1 1016(4)	3.933	4.583	15738400	7219016	38.568	38.656
7) L1 1016(5)	4.195	4.877	20651139	10556558	39.747	41.370
Sum 1016			129.186	53756003	192.866	200.187
Average 1016					38.577	40.037
8) L7 1260(1)	5.142	5.914	41230186	20569720	40.878	37.761
9) L7 1260(2)	5.363	6.069	59264444	25029191	37.493	38.701
10) L7 1260(3)	5.678	6.390	37778458	18600591	40.194	38.380
11) L7 1260(4)	5.876	6.585	39519733	21002832	38.773	37.894
12) L7 1260(5)	6.107	6.734	96275215	43617285	41.901	38.096
Sum 1260			274.186	129.0E6	198.638	190.834
Average 1260					39.728	38.167

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)-manual int.

CHECKED BY:
 MARISSA CAGAN
 MAR 04 2014



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1 - FORM I

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14C0012
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091165-BSD1 File ID: J0303026.d
Sampled: Prepared: 03/03/14 10:55 Analyzed: 03/03/14 14:29
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091165 Sequence: S005593 Calibration: 1400043 Instrument: ECD 9
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.19	0.031	0.10	
11096-82-5	Aroclor-1260	0.20	0.048	0.10	



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241

1 - FORM I ANALYSIS DATA SHEET

LCS Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14C0012
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091165-BSD1 File ID: ID303026.d
Sampled: Prepared: 03/03/14 10:55 Analyzed: 03/03/14 14:29
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091165 Sequence: S005593 Calibration: 1400043 Instrument: ECD 9
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.20	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.19	0.048	0.10	



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**4 - FORM IV
METHOD BLANK SUMMARY**

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory Work Order: 14C0012
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Blank ID: B091165-BLK1 Batch: B091165 Prepared: 03/03/2014 10:55

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
LCS Dup	B091165-BSD1	I0303026.d	14:29
LCS	B091165-BS1	I0303025.d	14:17
Exc-0N-6E-13ft	14C0012-07	I0303064.d	07:27
Exc-0N-6E-7ft	14C0012-06	I0303063.d	07:15
Berm-5N-200E	14C0012-05	I0303031.d	15:31
Berm-5N-192E	14C0012-04	I0303062.d	07:02
Berm-5N-197E	14C0012-03	I0303068.d	09:26
Berm-10N-195E	14C0012-02	I0303028.d	14:54
Berm-0N-195E	14C0012-01	I0303027.d	14:41



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226

58

1 - FORM I ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 14C0012
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091165-BLK1 File ID: I0303024.d
Sampled: Prepared: 03/03/14 10:55 Analyzed: 03/03/14 14:04
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091165 Sequence: S005593 Calibration: 1400043 Instrument: ECD 9
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0062	0.020	
11104-28-2	Aroclor-1221		0.020	0.020	
11141-16-5	Aroclor-1232		0.012	0.020	
53469-21-9	Aroclor-1242		0.010	0.020	
12672-29-6	Aroclor-1248		0.012	0.020	
11097-69-1	Aroclor-1254		0.0086	0.020	
11096-82-5	Aroclor-1260		0.0096	0.020	
37324-23-5	Aroclor-1262		0.0082	0.020	
11100-14-4	Aroclor-1268		0.012	0.020	

✓



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**1 - FORM I
ANALYSIS DATA SHEET****Blank**

Laboratory: Con-Test Analytical Laboratory Work Order: 14C0012
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091165-BLK1 File ID: I0303024.d
Sampled: Prepared: 03/03/14 10:55 Analyzed: 03/03/14 14:04
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091165 Sequence: S005593 Calibration: 1400043 Instrument: ECD 9
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]		0.0062	0.020	
11104-28-2	Aroclor-1221 [2C]		0.020	0.020	
11141-16-5	Aroclor-1232 [2C]		0.012	0.020	
53469-21-9	Aroclor-1242 [2C]		0.010	0.020	
12672-29-6	Aroclor-1248 [2C]		0.012	0.020	
11097-69-1	Aroclor-1254 [2C]		0.0086	0.020	
11096-82-5	Aroclor-1260 [2C]		0.0096	0.020	
37324-23-5	Aroclor-1262 [2C]		0.0082	0.020	
11100-14-4	Aroclor-1268 [2C]		0.012	0.020	

PREPARATION BENCH SHEET

244

B091165

Con-Test Analytical Laboratory

Printed: 3/14/2014 2:22:01PM

Matrix: Soil

Prepared using: SV-GC - SW-846 3546

Surrogate used: 1402192

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ml Spike	Location	Chemt	Extraction Comments
14C0012-01	8082	03/03/14	10	10				Walk in door 2	WSP	Soils run undilute - Report to MDL
14C0012-02	8082	03/03/14	10	10				Walk in door 2	WSP	Soils run undilute - Report to MDL
14C0012-03	8082	03/03/14	10	10				Walk in door 2	WSP	Soils run undilute - Report to MDL
14C0012-04	8082	03/03/14	10.1	10				Walk in door 2	WSP	Soils run undilute - Report to MDL
14C0012-05	8082	03/03/14	10	10				Walk in door 2	WSP	Soils run undilute - Report to MDL
14C0012-06	8082	03/03/14	10.1	10				Walk in door 2	WSP	Soils run undilute - Report to MDL
14C0012-07	8082	03/03/14	10	10				Walk in door 2	WSP	Soils run undilute - Report to MDL
B091165-BLK1	QC	03/03/14	10	10						
B091165-HS1	QC	03/03/14	10	10	1402138		1000			
B091165-BSD1	QC	03/03/14	10	10	1402138		1000			

Spiking Witnessed By

Date

Preparation Reviewed By

Date

Extracts Received By

Date

Date		Filename	Lab ID	Sample Info
3 Mar 2014	8:14 am	I0303001.d	ISO	
3 Mar 2014	8:27 am	I0303002.d	ISO	
3 Mar 2014	8:39 am	I0303003.d	ISO	
3 Mar 2014	8:51 am	I0303004.d	1260/1016 100 ✓	1402187
3 Mar 2014	9:04 am	I0303005.d	1254 100	1309167
3 Mar 2014	9:16 am	I0303006.d	1248 100	1402225
3 Mar 2014	9:28 am	I0303007.d	1242 100 ✓	1402213
3 Mar 2014	9:41 am	I0303008.d	1232/1268 100	1312248
3 Mar 2014	9:53 am	I0303009.d	1221/1262 100	1401037
3 Mar 2014	10:05 am	I0303010.d	ISO	
3 Mar 2014	10:53 am	I0303011.d	ISO	
3 Mar 2014	11:05 am	I0303012.d	14B0614-05	
3 Mar 2014	11:18 am	I0303013.d	14B0655-01	
3 Mar 2014	11:30 am	I0303014.d	14B0655-02	
3 Mar 2014	11:43 am	I0303015.d	14B0655-03	
3 Mar 2014	11:55 am	I0303016.d	14B0655-04	
3 Mar 2014	12:07 pm	I0303017.d	14B0655-05	
3 Mar 2014	12:20 pm	I0303018.d	14B0655-06	
3 Mar 2014	12:32 pm	I0303019.d	14B0655-07	
3 Mar 2014	12:44 pm	I0303020.d	14B0655-08	
3 Mar 2014	12:57 pm	I0303021.d	ISO	
3 Mar 2014	1:09 pm	I0303022.d	1260/1016 50 ✓	
3 Mar 2014	1:52 pm	I0303023.d	ISO	
3 Mar 2014	2:04 pm	I0303024.d	B091165-BLK1	
3 Mar 2014	2:17 pm	I0303025.d	B091165-BS105X	
3 Mar 2014	2:29 pm	I0303026.d	B091165-BSD105X	
3 Mar 2014	2:41 pm	I0303027.d	14C0012-01	
3 Mar 2014	2:54 pm	I0303028.d	14C0012-02	
3 Mar 2014	3:06 pm	I0303029.d	14C0012-03	
3 Mar 2014	3:18 pm	I0303030.d	14C0012-04	
3 Mar 2014	3:31 pm	I0303031.d	14C0012-05	
3 Mar 2014	3:43 pm	I0303032.d	14C0012-06	
3 Mar 2014	4:06 pm	I0303033.d	14C0012-07	
3 Mar 2014	4:20 pm	I0303034.d	ISO	
3 Mar 2014	4:32 pm	I0303035.d	ISO	
3 Mar 2014	4:45 pm	I0303036.d	1260/1016 100 ✓	
3 Mar 2014	4:57 pm	I0303037.d	TO-10A lot check	
3 Mar 2014	7:58 pm	I0303038.d	ISO	
3 Mar 2014	8:11 pm	I0303039.d	1260/1016 20	
3 Mar 2014	8:23 pm	I0303040.d	1260/1016 50	
3 Mar 2014	8:35 pm	I0303041.d	B091097-BLK1@TO-10A TBA	
3 Mar 2014	8:48 pm	I0303042.d	B091097-BS10@TO-10A TBA	
3 Mar 2014	9:00 pm	I0303043.d	B091097-BSD10@TO-10A TBA	
3 Mar 2014	9:13 pm	I0303044.d	14B0737-01@TBA	
3 Mar 2014	9:25 pm	I0303045.d	14B0737-02@TBA	
3 Mar 2014	9:37 pm	I0303046.d	14B0737-03@TBA	
3 Mar 2014	9:50 pm	I0303047.d	14B0737-04@TBA	
3 Mar 2014	10:02 pm	I0303048.d	14B0737-05@TBA	
3 Mar 2014	10:14 pm	I0303049.d	14B0737-06@TBA	
3 Mar 2014	10:27 pm	I0303050.d	14B0737-07@TBA	
3 Mar 2014	10:39 pm	I0303051.d	14B0737-08@TBA	
3 Mar 2014	10:51 pm	I0303052.d	14B0737-09@TBA	
3 Mar 2014	11:04 pm	I0303053.d	14B0737-10@TBA	
3 Mar 2014	11:16 pm	I0303054.d	14B0737-11@TBA	
3 Mar 2014	11:28 pm	I0303055.d	14B0737-12@TBA	
3 Mar 2014	11:41 pm	I0303056.d	ISO	
3 Mar 2014	11:53 pm	I0303057.d	1260/1016 100	
4 Mar 2014	5:54 am	I0303058.d	ISO	
4 Mar 2014	6:06 am	I0303059.d	ISO	
4 Mar 2014	6:19 am	I0303060.d	1016/1260 100 ✓	

Date	Filename	Lab ID	Sample Info
4 Mar 2014	6:50 am I0303061.d	ISO	
4 Mar 2014	7:02 am I0303062.d	14C0012-C4010X	
4 Mar 2014	7:15 am I0303063.d	14C0012-06010X	
4 Mar 2014	7:27 am I0303064.d	14C0012-C7020X	
4 Mar 2014	7:39 am I0303065.d	ISO	
4 Mar 2014	7:52 am I0303066.d	1016/1260 100	
4 Mar 2014	9:13 am I0303067.d	ISO	
4 Mar 2014	9:26 am I0303068.d	14C0012-03010X	
4 Mar 2014	9:38 am I0303069.d	ISO	
4 Mar 2014	9:50 am I0303070.d	1260/1016 50	
4 Mar 2014	9:52 pm I0303071.d	ISO	
4 Mar 2014	10:04 pm I0303072.d	ISO	
4 Mar 2014	10:17 pm I0303073.d	1260/1016 100	
4 Mar 2014	10:45 pm I0303074.d	ISO	
4 Mar 2014	10:57 pm I0303075.d	B091213-BLK10P/S	
4 Mar 2014	11:09 pm I0303076.d	B091213-B510P/S	
4 Mar 2014	11:22 pm I0303077.d	B091213-B5010P/S	
4 Mar 2014	11:34 pm I0303078.d	14C0045-08	
4 Mar 2014	11:46 pm I0303079.d	14C0045-09	
4 Mar 2014	11:59 pm I0303080.d	14C0045-10	
5 Mar 2014	12:11 am I0303081.d	14C0045-11	
5 Mar 2014	12:23 am I0303082.d	14C0045-12	
5 Mar 2014	12:36 am I0303083.d	14C0045-13	
5 Mar 2014	12:48 am I0303084.d	14C0045-14	
5 Mar 2014	1:01 am I0303085.d	14C0045-15	
5 Mar 2014	1:13 am I0303086.d	14C0045-16	
5 Mar 2014	1:25 am I0303087.d	ISO	
5 Mar 2014	1:38 am I0303088.d	1260/1016 50	
5 Mar 2014	1:50 am I0303089.d	14C0045-17	
5 Mar 2014	2:02 am I0303090.d	14C0045-18	
5 Mar 2014	2:15 am I0303091.d	14C0045-19	
5 Mar 2014	2:27 am I0303092.d	14C0045-20	
5 Mar 2014	2:39 am I0303093.d	14C0045-21	
5 Mar 2014	2:52 am I0303094.d	14C0045-22	
5 Mar 2014	3:04 am I0303095.d	14C0045-23	
5 Mar 2014	3:17 am I0303096.d	14C0045-24	
5 Mar 2014	3:29 am I0303097.d	14C0045-25	
5 Mar 2014	3:41 am I0303098.d	14C0045-26	
5 Mar 2014	3:54 am I0303099.d	14C0045-27	
5 Mar 2014	4:06 am I0303100.d	B091213-HS10P/S	
5 Mar 2014	4:18 am I0303101.d	B091213-HS010P/S	
5 Mar 2014	4:31 am I0303102.d	ISO	
5 Mar 2014	4:43 am I0303103.d	1260/1016 100	

Method Patn : C:\msdchem\1\methods\PCB Methods\
 Method File : 9-1260-022014C.M
 Title : 1260/1016 02/20/14 12/05/13
 Last Update : Fri Feb 21 09:11:02 2014
 Response Via : Initial Calibration

Calibration Files

5 =I0220013.d 10 =I0220014.d 20 =I0220015.d
 50 =I0220016.d 100 =I0220017.d 200 =I0220018.d

Compound	5	10	20	50	100	200	Avg	1RSD
1) S Tetrachloro-m...	2.094	2.148	2.196	2.174	2.278	2.310	2.215	E7 3.81
2) S Decachlorobip...	1.891	1.865	1.855	1.816	1.881	1.931	1.884	E7 2.43
3) L1 1016(1)			8.807	8.008	9.185	7.582	7.996	E5 6.92
4) L1 1016(2)			9.790	9.084	9.463	9.404	9.429	E5 2.66
5) L1 1016(3)			7.647	6.775	6.879	6.574	6.874	E5 6.67
6) L1 1016(4)			4.417	3.971	4.132	3.956	4.081	E5 5.00
7) L1 1016(5)			5.859	5.207	5.082	4.933	5.196	E5 7.52
8) L7 1260(1)			1.102	0.970	1.001	0.984	1.009	E6 5.29
9) L7 1260(2)			1.713	1.554	1.552	1.544	1.581	E6 4.70
10) L7 1260(3)			1.034	0.932	0.922	0.908	0.940	E6 5.74
11) L7 1260(4)			1.119	1.023	1.012	1.013	1.035	E6 4.52
12) L7 1260(5)			2.297	2.215	2.303	2.332	2.298	E6 2.18

Signal #2 Calibration Files

5 =I0220013.d 10 =I0220014.d 20 =I0220015.d
 50 =I0220016.d 100 =I0220017.d 200 =I0220018.d

Compound	5	10	20	50	100	200	Avg	1RSD
1) S Tetrachloro-m...	0.987	0.992	1.019	1.001	1.046	1.060	1.024	E7 3.12
2) S Decachlorobip...	9.321	8.817	8.246	8.078	8.224	8.528	8.523	E6 5.01
3) L1 1016(1)			1.670	1.571	1.507	1.412	1.510	E5 7.68
4) L1 1016(2)			4.984	4.400	4.428	4.349	4.504	E5 6.01
5) L1 1016(3)			3.292	3.039	3.074	2.912	3.041	E5 5.33
6) L1 1016(4)			2.001	1.878	1.864	1.806	1.868	E5 4.40
7) L1 1016(5)			2.820	2.625	2.536	2.406	2.552	E5 7.11
8) L7 1260(1)			6.418	5.314	5.409	5.142	5.447	E5 10.46
9) L7 1260(2)			7.486	6.373	6.438	6.107	6.467	E5 9.35
10) L7 1260(3)			5.791	4.895	4.786	4.544	4.899	E5 10.77
11) L7 1260(4)			6.352	5.548	5.454	5.209	5.543	E5 8.69
12) L7 1260(5)			1.245	1.129	1.126	1.113	1.145	E6 4.92

{#} ~ Out of Range ### Number of calibration levels exceeded format ###

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 9-1260-022014C.M
 Title : 1260/1016 02/20/14 12/05/13
 Last Update : Fri Feb 21 09:11:02 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\022014A\I0220013.d
2	10	10	0	C:\msdchem\1\data\022014A\I0220014.d
3	20	20	0	C:\msdchem\1\data\022014A\I0220015.d
4	50	50	0	C:\msdchem\1\data\022014A\I0220016.d
5	100	100	0	C:\msdchem\1\data\022014A\I0220017.d
6	200	200	0	C:\msdchem\1\data\022014A\I0220018.d
7	250	250	0	C:\msdchem\1\data\022014A\I0220019.d

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Feb 21 09:09 2014	Feb 21 09:09 2014	20 Feb 2014 8:19 pm
2	10	Feb 21 09:09 2014	Feb 21 09:09 2014	20 Feb 2014 8:32 pm
3	20	Feb 21 09:11 2014	Feb 21 09:10 2014	20 Feb 2014 8:44 pm
4	50	Feb 21 09:09 2014	Feb 21 09:09 2014	20 Feb 2014 8:57 pm
5	100	Feb 21 09:09 2014	Feb 21 09:09 2014	20 Feb 2014 9:09 pm
6	200	Feb 21 09:09 2014	Feb 21 09:09 2014	20 Feb 2014 9:21 pm
7	250	Feb 21 09:09 2014	Feb 21 09:09 2014	20 Feb 2014 9:34 pm

9-1260-022014C.M Fri Feb 21 09:11:37 2014

Data Path : C:\msdchem\1\data\022014A\
 Data File : I0220016.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Feb 2014 8:57 pm
 Operator : JMB
 Sample : 1260/1016 50 Inst : ECD 9
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Feb 21 09:09:10 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\9-1260-022014C.M
 Quant Title : 1260/1016 02/20/14 12/05/13
 QLast Update : Fri Feb 21 09:09:10 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.885	3.281	1087.0E6	500.4E6	50.653	50.077
Spiked Amount	200.000		Recovery	=	25.30%	25.04
2) S Decachlor...	6.961	7.611	909.1E6	403.9E6	46.352	45.927
Spiked Amount	200.000		Recovery	=	24.28%	22.96%
Target Compounds						
3) L1 1016(1)	3.434	4.221	40041388	7852950	31.735	47.011
4) L1 1016(2)	3.790	4.391	45420243	21998859	46.393	44.136
5) L1 1016(3)	3.889	4.500	33875440	15196493	44.301	46.155
6) L1 1016(4)	3.937	4.585	19834055	9389946	44.951	46.919
7) L1 1016(5)	4.200	4.881	26032855	13125639	44.435	46.539
Sum 1016			165.2E6	67563877	211.815	230.761
Average 1016					42.363	46.152
8) L7 1260(1)	5.147	5.919	48483185	26569814	43.997	41.401
9) L7 1260(2)	5.367	6.072	77676427	31866038	45.339	42.569
10) L7 1260(3)	5.683	6.392	46583320	24475423	45.037	42.264
11) L7 1260(4)	5.879	6.589	51130412	27740238	45.708	43.675
12) L7 1260(5)	6.109	6.735	110.7E6	56470897	48.217	45.371
Sum 1260			334.6E6	167.1E6	228.299	215.279
Average 1260					45.660	43.056

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)-manual int.

66

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 9-1254-010714C.M
 Title : 1254 01/07/14 09/17/13
 Last Update : Wed Jan 08 10:45:49 2014
 Response Via : Initial Calibration

Calibration Files

5 =I0107011.d 10 =I0107012.d 20 =I0107013.d
 50 =I0107014.d 100 =I0107015.d 200 =I0107016.d

	Compound	5	10	20	50	100	200	Avg	RSD
1) S	Tetrachloro-m...	1.978	1.984	1.986	1.993	2.192	2.129	2.052	E7 4.25
2) S	Decachlorobip...	1.805	1.581	1.511	1.471	1.618	1.618	1.602	E7 6.63
3) L6	1254{1}			6.893	6.303	6.159	5.860	6.139	E5 7.36
4) L6	1254{2}			1.224	1.114	1.094	1.045	1.100	E6 7.12
5) L6	1254{3}			1.236	1.116	1.136	1.103	1.134	E6 5.30
6) L6	1254{4}			9.270	8.708	8.676	8.383	8.654	E5 4.59
7) L6	1254{5}			1.251	1.181	1.136	1.149	1.173	E6 3.96

Signal #2 Calibration Files

5 =I0107011.d 10 =I0107012.d 20 =I0107013.d
 50 =I0107014.d 100 =I0107015.d 200 =I0107016.d

	Compound	5	10	20	50	100	200	Avg	RSD
1) S	Tetrachloro-m...	1.064	1.046	1.039	1.048	1.159	1.134	1.088	E7 4.57
2) S	Decachlorobip...	1.044	0.956	0.891	0.862	0.951	0.946	0.941	E7 6.10
3) L6	1254{1}			4.592	4.103	3.974	3.728	4.006	E5 9.46
4) L6	1254{2}			5.426	4.827	4.554	4.292	4.655	E5 10.71
5) L6	1254{3}			7.720	6.993	6.799	6.456	6.849	F5 8.19
6) L6	1254{4}			5.612	4.999	4.847	4.416	4.819	E5 11.29
7) L6	1254{5}			6.465	5.859	6.096	6.334	6.318	E5 6.28

(#) = Out of Range ### Number of calibration levels exceeded format ###

67

Calibration Status Report ECD 9

153

Method Path : C:\msdchem\1\methods\PCB Methods\
Method File : 9-1254-010714C.M
Title : 1254 01/07/14 09/17/13
Last Update : Wed Jan 08 10:45:49 2014
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\010714\10107011.d
2	10	10	0	C:\msdchem\1\data\010714\10107012.d
3	20	20	0	C:\msdchem\1\data\010714\10107013.d
4	50	50	0	C:\msdchem\1\data\010714\10107014.d
5	100	100	0	C:\msdchem\1\data\010714\10107015.d
6	200	200	0	C:\msdchem\1\data\010714\10107016.d
7	250	250	0	C:\msdchem\1\data\010714\10107017.d

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 1:47 pm
2	10	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 2:00 pm
3	20	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 2:12 pm
4	50	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 2:25 pm
5	100	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 2:37 pm
6	200	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 2:49 pm
7	250	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 3:02 pm

9-1254-010714C.M Wed Jan 08 10:46:19 2014

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 9-1248-010714C.M
 Title : 1248 01/07/14 08/29/13
 Last Update : Wed Jan 08 11:15:14 2014
 Response Via : Initial Calibration

Calibration Files

5 =I0107011.d 10 =I0107012.d 20 =I0107013.d
 50 =I0107014.d 100 =I0107015.d 200 =I0107016.d

Compound	5	10	20	50	100	200	Avg	RSD
1) S Tetrachloro-m...	1.978	1.984	1.986	1.993	2.192	2.129	2.052	E7 4.25
2) S Decachlorobip...	1.805	1.561	1.511	1.471	1.618	1.618	1.602	E7 6.63
3) L5 1248{1}			4.282	3.898	3.787	4.044	3.994	E5 4.67
4) L5 1248{2}			5.343	4.743	4.484	4.564	4.722	E5 7.68
5) L5 1248{3}			6.751	6.095	5.882	6.170	6.184	E5 5.41
6) L5 1248{4}			7.745	6.935	6.780	7.216	7.149	E5 5.18
7) L5 1248{5}			6.493	5.915	5.773	6.158	6.081	E5 4.49

Signal #2 Calibration Files

5 =I0107011.d 10 =I0107012.d 20 =I0107013.d
 50 =I0107014.d 100 =I0107015.d 200 =I0107016.d

Compound	5	10	20	50	100	200	Avg	RSD
1) S Tetrachloro-m...	1.064	1.046	1.039	1.048	1.159	1.134	1.088	E7 4.57
2) S Decachlorobip...	1.044	0.956	0.891	0.862	0.951	0.946	0.941	E7 6.10
3) L5 1248{1}			2.386	2.277	2.112	2.158	2.208	E5 5.46
4) L5 1248{2}			3.227	2.640	2.632	2.624	2.772	E5 10.02
5) L5 1248{3}			4.079	3.542	3.340	3.391	3.528	E5 9.14
6) L5 1248{4}			4.524	3.961	3.763	3.858	3.968	E5 8.13
7) L5 1248{5}			4.915	4.462	4.246	4.339	4.437	E5 6.38

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method Path : C:\msdchem\1\methods\PC3 Methods\
 Method File : 9-1248-010714C.M
 Title : 1248 01/07/14 08/29/13
 Last Update : Wed Jan 08 11:15:14 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\010714\I0107011.d
2	10	10	0	C:\msdchem\1\data\010714\I0107012.d
3	20	20	0	C:\msdchem\1\data\010714\I0107013.d
4	50	50	0	C:\msdchem\1\data\010714\I0107014.d
5	100	100	0	C:\msdchem\1\data\010714\I0107015.d
6	200	200	0	C:\msdchem\1\data\010714\I0107016.d
7	250	250	0	C:\msdchem\1\data\010714\I0107017.d

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Jan 08 11:15 2014	Jan 08 10:45 2014	7 Jan 2014 1:47 pm
2	10	Jan 08 11:15 2014	Jan 08 10:45 2014	7 Jan 2014 2:00 pm
3	20	Jan 08 11:15 2014	Jan 08 10:45 2014	7 Jan 2014 2:12 pm
4	50	Jan 08 11:15 2014	Jan 08 10:45 2014	7 Jan 2014 2:25 pm
5	100	Jan 08 11:15 2014	Jan 08 10:45 2014	7 Jan 2014 2:37 pm
6	200	Jan 08 11:15 2014	Jan 08 10:45 2014	7 Jan 2014 2:49 pm
7	250	Jan 08 11:15 2014	Jan 08 10:45 2014	7 Jan 2014 3:02 pm

9-1248-010714C.M Wed Jan 08 11:15:36 2014

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 9-1242-010714C.M
 Title : 1242 01/07/14 08/27/13
 Last Update : Wed Jan 08 11:24:56 2014
 Response Via : Initial Calibration

Calibration Files

5 =I0107011.d 10 =I0107012.d 20 =I0107013.d
 50 =I0107014.d 100 =I0107015.d 200 =I0107016.d

	Compound	5	10	20	50	100	200	Avg	%RSD
1)	S Tetrachloro-m...	1.978	1.984	1.996	1.993	2.192	2.129	2.052	E7 4.25
2)	S Decachlorobip...	1.805	1.581	1.511	1.471	1.618	1.618	1.602	E7 6.63
3)	L4 1242{1}			6.435	5.867	5.558	5.232	5.726	E5 7.96
4)	L4 1242{2}			2.462	2.183	2.072	1.957	2.155	E5 6.81
5)	L4 1242{3}			7.026	6.484	6.532	6.455	6.691	E5 4.14
6)	L4 1242{4}			4.694	4.941	4.782	4.594	4.777	E5 2.90
7)	L4 1242{5}			3.187	2.857	2.777	2.697	2.880	E5 6.47

Signal #2 Calibration Files

5 =I0107011.d 10 =I0107012.d 20 =I0107013.d
 50 =I0107014.d 100 =I0107015.d 200 =I0107016.d

	Compound	5	10	20	50	100	200	Avg	%RSD
1)	S Tetrachloro-m...	1.064	1.046	1.039	1.048	1.159	1.134	1.089	E7 4.57
2)	S Decachlorobip...	1.044	0.956	0.891	0.862	0.951	0.946	0.941	E7 6.10
3)	L4 1242{1}			2.493	2.290	2.143	1.993	2.200	E5 8.94
4)	L4 1242{2}			1.441	1.347	1.275	1.168	1.290	E5 8.35
5)	L4 1242{3}			3.975	3.716	3.667	3.383	3.654	E5 6.07
6)	L4 1242{4}			2.850	2.603	2.558	2.395	2.587	E5 6.42
7)	L4 1242{5}			1.710	1.634	1.569	1.492	1.596	E5 5.10

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method Path : C:\msdchem\1\methods\FCS Methods\
 Method File : 9-1242-010714C.M
 Title : 1242 01/07/14 08/27/13
 Last Update : Wed Jan 08 11:24:56 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\010714\I0107011.d
2	10	10	0	C:\msdchem\1\data\010714\I0107012.d
3	20	20	0	C:\msdchem\1\data\010714\I0107013.d
4	50	50	0	C:\msdchem\1\data\010714\I0107014.d
5	100	100	0	C:\msdchem\1\data\010714\I0107015.d
6	200	200	0	C:\msdchem\1\data\010714\I0107016.d
7	250	250	0	C:\msdchem\1\data\010714\I0107017.d

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Jan 08 11:24 2014	Jan 08 10:45 2014	7 Jan 2014 1:47 pm
2	10	Jan 08 11:24 2014	Jan 08 10:45 2014	7 Jan 2014 2:00 pm
3	20	Jan 08 11:24 2014	Jan 08 10:45 2014	7 Jan 2014 2:12 pm
4	50	Jan 08 11:24 2014	Jan 08 10:45 2014	7 Jan 2014 2:25 pm
5	100	Jan 08 11:24 2014	Jan 08 10:45 2014	7 Jan 2014 2:37 pm
6	200	Jan 08 11:24 2014	Jan 08 10:45 2014	7 Jan 2014 2:49 pm
7	250	Jan 08 11:24 2014	Jan 08 10:45 2014	7 Jan 2014 3:02 pm

9-1242-010714C.M Wed Jan 08 11:25:12 2014

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14C0012
Client:	WSP	Project:	514D Site - Yorkville, NY-PCB
Instrument ID:	ECD 9	Calibration:	1400043
Lab File ID:	I0303004.d	Calibration Date:	02/20/14 00:00
Sequence:	S005593	Injection Date:	03/03/14
Lab Sample ID:	S005593-CCV1	Injection Time:	08:51

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	101				1.2	15
Aroclor-1016 [2C]	A	100	105				5.5	15
Aroclor-1260	A	100	100				0.05	15
Aroclor-1260 [2C]	A	100	93.4				-6.6	15
Decachlorobiphenyl	A	100	98.7	1.884475E+07	1.8601E+07		-1.3	
Decachlorobiphenyl [2C]	A	100	103	8522995	8784000		3.1	
Tetrachloro-m-xylene	A	100	104	2.215256E+07	2.3089E+07		4.2	
Tetrachloro-m-xylene [2C]	A	100	109	1.02368E+07	1.1172E+07		9.1	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory Work Order: 14C0012
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Instrument ID: ECD 9 Calibration: 1400043
Lab File ID: I0303005.d Calibration Date: 02/20/14 00:00
Sequence: S005593 Injection Date: 03/03/14
Lab Sample ID: S005593-CCV2 Injection Time: 09:04

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254	A	100	111				11.5	15
Aroclor-1254 [2C]	A	100	98.5				-1.5	15
Decachlorobiphenyl	A	100	102	1.884475E+07	1.9145E+07		1.6	
Decachlorobiphenyl [2C]	A	100	104	8522895	8889000		4.4	
Tetrachloro-m-xylene	A	100	104	2.215256E+07	2.3046E+07		4.0	
Tetrachloro-m-xylene [2C]	A	100	108	1.02368E+07	1.1058E+07		8.0	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



39 Spruce Street * Fast Lane Meadow MA 01028 * FAX 413/525-8405 * TEL. 413/525-2332

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14C0012
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD 9	Calibration:	1400043
Lab File ID:	I0303007.d	Calibration Date:	02/20/14 00:00
Sequence:	S005593	Injection Date:	03/03/14
Lab Sample ID:	S005593-CCV3	Injection Time:	09:28

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1242	A	100	109				9.1	15
Aroclor-1242 [2C]	A	100	95.0				-5.0	15
Decachlorobiphenyl	A	100	98.9	1.884475E+07	1.8632E+07		-1.1	
Decachlorobiphenyl [2C]	A	100	101	8522995	8603000		0.9	
Tetrachloro-m-xylene	A	100	104	2.215256E+07	2.2951E+07		3.6	
Tetrachloro-m-xylene [2C]	A	100	107	1.02368E+07	1.0968E+07		7.1	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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7 - FORM VII
CONTINUING CALIBRATION VERIFICATION
SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14C0012
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD 9	Calibration:	1400043
Lab File ID:	10303022.d	Calibration Date:	02/20/14 00:00
Sequence:	S005593	Injection Date:	03/03/14
Lab Sample ID:	S005593-CCV4	Injection Time:	13:09

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	50.0	52.3				4.6	15
Aroclor-1016 [2C]	A	50.0	56.6				13.3	15
Aroclor-1260	A	50.0	53.0				5.9	15
Aroclor-1260 [2C]	A	50.0	50.6				1.3	15
Decachlorobiphenyl	A	50.0	51.6	1.884475E+07	1.944E+07		3.2	
Decachlorobiphenyl [2C]	A	50.0	52.3	8622996	8916000		4.6	
Tetrachloro-m-xylene	A	50.0	53.4	2.215256E+07	2.3654E+07		6.8	
Tetrachloro-m-xylene [2C]	A	50.0	55.9	1.02368E+07	1.1438E+07		11.7	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14C0012
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD 9	Calibration:	1400043
Lab File ID:	10303036.d	Calibration Date:	02/20/14 00:00
Sequence:	S005593	Injection Date:	03/03/14
Lab Sample ID:	SD05593-CCV5	Injection Time:	16:45

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	99.0				-1.0	15
Aroclor-1016 [2C]	A	100	101				0.8	15
Aroclor-1260	A	100	92.6				-7.4	15
Aroclor-1260 [2C]	A	100	86.7				-13.3	15
Decachlorobiphenyl	A	100	93.1	1.884475E+07	1.7538E+07		-6.9	
Decachlorobiphenyl [2C]	A	100	93.7	8522995	7988000		-6.3	
Tetrachloro-m-xylene	A	100	102	2.215256E+07	2.2663E+07		2.3	
Tetrachloro-m-xylene [2C]	A	100	106	1.02368E+07	1.0828E+07		5.8	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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7 - FORM VII CONTINUING CALIBRATION VERIFICATION SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14CD012
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD 9	Calibration:	1400043
Lab File ID:	I0303060.d	Calibration Date:	02/20/14 00:00
Sequence:	S005593	Injection Date:	03/04/14
Lab Sample ID:	S005593-CCV6	Injection Time:	06:19

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	97.9				-2.1	15
Aroclor-1016 [2C]	A	100	100				0.4	15
Aroclor-1260	A	100	102				1.6	15
Aroclor-1260 [2C]	A	100	91.6				-8.4	15
Decachlorobiphenyl	A	100	103	1.884475E+07	1.9494E+07		3.4	
Decachlorobiphenyl [2C]	A	100	101	8522995	8575000		0.6	
Tetrachloro-m-xylene	A	100	107	2.215256E+07	2.3845E+07		6.7	
Tetrachloro-m-xylene [2C]	A	100	107	1.02368E+07	1.0945E+07		6.9	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data Path : C:\msdchem\1\data\030314\
 Data File : I0303060.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 4 Mar 2014 6:19 am
 Operator : JMB
 Sample : 1016/1260 100 Inst : ECD 9
 Misc :
 ALS Vial : 60 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Mar 14 15:31:58 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\9-1260-022014C.M
 Quant Title : 1260/1016 02/20/14 12/03/13
 QLast Update : Fri Feb 21 09:11:02 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.882	3.279	2364.5E6	1094.5E6	106.740	106.922
Spiked Amount	200.000		Recovery	=	53.37%	53.46%
2) S Decachlor...	6.959	7.608	1949.4E6	857.5E6	103.444	100.613
Spiked Amount	200.000		Recovery	=	51.72%	50.31%
Target Compounds						
3) L1 1016(1)	3.430	4.219	77811246	15603998	97.315	103.352
4) L1 1016(2)	3.797	4.389	93505521	48071182	99.171	106.740
5) L1 1016(3)	3.886	4.498	66305732	28617793	96.461	94.120
6) L1 1016(4)	3.934	4.583	40260807	18202398	98.661	97.469
7) L1 1016(5)	4.196	4.878	50985240	25660296	98.131	100.561
Sum 1016			328.9E6	136.2E6	489.738	502.241
Average 1016					97.948	100.448
8) L7 1260(1)	5.142	5.915	102.9E6	48700933	102.008	89.403
9) L7 1260(2)	5.364	6.070	153.7E6	59639209	97.207	92.216
10) L7 1260(3)	5.679	6.390	94814818	44872896	100.876	91.604
11) L7 1260(4)	5.876	6.586	101.7E6	50599296	98.239	91.292
12) L7 1260(5)	6.107	6.733	251.8E6	107.0E6	109.607	93.463
Sum 1260			704.9E6	310.8E6	507.938	457.978
Average 1260					101.588	91.596

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25 (m)=manual int.

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory Work Order: 14C0012
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Instrument ID: ECD 9 Calibration: 1400043
 Lab File ID: I0303066.d Calibration Date: 02/20/14 00:00
 Sequence: S005593 Injection Date: 03/04/14
 Lab Sample ID: S005593-CCV7 Injection Time: 07:52

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	99.2				-0.8	15
Aroclor-1016 [2C]	A	100	104				4.2	15
Aroclor-1260	A	100	101				0.9	15
Aroclor-1260 [2C]	A	100	91.1				-8.9	15
Decachlorobiphenyl	A	100	102	1.884475E+07	1.9186E+07		1.8	
Decachlorobiphenyl [2C]	A	100	101	8522995	8586000		0.7	
Tetrachloro-m-xylene	A	100	107	2.215256E+07	2.3619E+07		6.6	
Tetrachloro-m-xylene [2C]	A	100	107	1.02368E+07	1.0904E+07		6.5	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14C0012
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD 9	Calibration:	1400043
Lab File ID:	10303070.d	Calibration Date:	02/20/14 00:00
Sequence:	S005593	Injection Date:	03/04/14
Lab Sample ID:	S005593-CCV8	Injection Time:	09:50

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	50.0	51.2				2.5	15
Aroclor-1016 [2C]	A	50.0	55.9				11.9	15
Aroclor-1260	A	50.0	52.0				4.1	15
Aroclor-1260 [2C]	A	50.0	48.7				-2.5	15
Decachlorobiphenyl	A	50.0	51.2	1.884475E+07	1.93E+07		2.4	
Decachlorobiphenyl [2C]	A	50.0	51.7	8522995	8808000		3.3	
Tetrachloro-m-xylene	A	50.0	53.5	2.215256E+07	2.3706E+07		7.0	
Tetrachloro-m-xylene [2C]	A	50.0	53.6	1.02368E+07	1.088E+07		7.3	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data Validation Report

**WSP Group
5140 Commercial Dr.
Yorkville, New York**

SDG# 14C0059



ECT.CON INC.

Environmental and Computer
Technology Consultants

115 Riverview Bend South Unit 2144
Palm Coast, FL 32137
Office (386) 283-9360
Cell (724) 288-1971
e-mail: ectconinc@mac.com

2

DATA VALIDATION REPORT

Project Name: 5140 Commercial Dr. Yorkville, NY
 SDG # 14C0059

 Performed for: WSP

 Laboratory: Con-test Analytical Laboratory

 Validation Performed by: ECT.CON INC
 Validation Guidance: USEPA CLP National Functional Guidelines for Organic
 Data Review (NFG)

 Validation Report Date: 5/2/14

Samples/Matrix:

	Sample Date	Sample ID	Laboratory ID	Matrix
1	02/28/14	EXC 0N-25E	14C0059-01	Solid
2	02/28/14	EXC 5S-25E	14C0059-02	Solid
3	02/28/14	EXC 5N-25E	14C0059-03	Solid
4	03/03/14	EXC 0N-35E	14C0059-04	Solid
5	03/03/14	EXC 5S-35E	14C0059-05	Solid
6	03/03/14	EXC 5N-35E	14C0059-06	Solid
7	03/03/14	EXC 0N-45E	14C0059-07	Solid
8	03/03/14	EXC 5S-45E	14C0059-08	Solid
9	03/03/14	EXC 5N-45E	14C0059-09	Solid
10	03/03/14	EXC 0N-53E	14C0059-10	Solid
11	03/03/14	EXC 0N-73E	14C0059-11	Solid

This sample set consists of the following:

Field Samples :	10
Trip Blanks :	0
Equipment Blanks :	0
Field Blanks :	0
Field Duplicates:	1

Analytical data in this report were reviewed to determine analytical limitations of the data based on specific quality control criteria. This review is performed on a laboratory signed data package. The laboratory signature indicates that the laboratory has reviewed and has certified that the information provided in the data package are correct and complete. The results of the review are an interpretation of the reported quality control information provided by the laboratory in comparison to the specified validation criteria for the project. Laboratory calculations have been verified as part of the validation. Form 1's and/or analytical results sheets are annotated with the results of the validation.

This evaluation was conducted in accordance with the requested validation guidelines, project requirement and the analytical method. Findings from this validation should be considered when using the analytical data.

The organic findings are based on the validation of the following:

- Sample Preservation
- Holding Times
- Initial Calibration
- Continuing Calibration
- Blanks (lab and field)
- System Monitoring Compounds
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- Laboratory Control Sample (LCS)
- Target Compound Identification
- Compound Quantification and Quantitation Limits
- System Performance

This report consists of the validation findings. This is followed by annotated Form 1's. The final section of the report is supporting documentation. This consists of the Chain of Custody, laboratory case narrative and the validation worksheets.

Project Number: 14C0059

Method Number **Description**
 SW-846 8082 Polychlorinated Biphenyls (PCBs)

				PCB
	Sample Date	Sample ID	Laboratory ID	8082
1	02/28/14	EXC 0N-25E	14C0059-01	Solid X
2	02/28/14	EXC 5S-25E	14C0059-02	Solid X
3	02/28/14	EXC 5N-25E	14C0059-03	Solid X
4	03/03/14	EXC 0N-35E	14C0059-04	Solid X
5	03/03/14	EXC 5S-35E	14C0059-05	Solid X
6	03/03/14	EXC 5N-35E	14C0059-06	Solid X
7	03/03/14	EXC 0N-45E	14C0059-07	Solid X
8	03/03/14	EXC 5S-45E	14C0059-08	Solid X
9	03/03/14	EXC 5N-45E	14C0059-09	Solid X
10	03/03/14	EXC 0N-53E	14C0059-10	Solid X
11	03/03/14	EXC 0N-73E	14C0059-11	Solid X

11

FINDINGS

POLYCHLORINATED BIPHENYLS

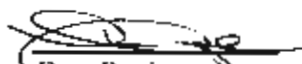
1. Positive results less than the reporting limits were qualified as estimated, "J", due to uncertainty near the detection limit.

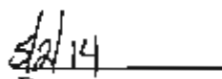
NOTES**POLYCHLORINATED BIPHENYLS**

- A. A matrix spike/matrix spike duplicate was not analyzed with this sample set. A laboratory control sample was analyzed and was compliant. Data were not qualified on this basis.
- B. On instrument ECD 5's analytical sequence, standards for Aroclor 1254, 1242, 1232, 1221, 1262, and 1268 are listed as part of the sequence. The quantitation reports for these compounds were not included in the data package. This is noted for completeness only. Data were not qualified on this basis.
- C. The following samples were analyzed and reported at the listed dilution factors due to the presence of target compounds and/or matrix interferences. Data were not qualified on this basis.

Sample	Lab ID	Dilution
EXC 0N-25E	14C0059-01	500X
EXC 0N-35E	14C0059-04	10X
EXC 5S-35E	14C0059-05	4000X
EXC 0N-45E	14C0059-07	50X
EXC 5S-45E	14C0059-08	10X

- D. The sample form 1 for Exc-0N-25E was mislabeled as Exc-ON-25E. The form 1 was corrected by the reviewer. Data were not qualified on this basis.


Data Reviewer


Date

Field Duplicates

Calculated RPD for positive results only.

ND – Nondetected results, — RPD not calculated.

14C0059-10	14C0059-11		
Sample ID	Duplicate ID	Parameter	RPD
EXC 0N-53E	EXC 0N-73E		
0.049	0.043	PCBs 1248	3%
0.16	0.12	PCBs 1260	7%

Glossary of Data Qualifiers

U	Not Detected	The associated number indicates approximate sample concentration necessary to be detected.
UJ	Not Detected	Quantitation limit may be inaccurate or imprecise.
J	Analyte Present	Reported value is an estimated quantity.
N	Consider Present	Tentative identification. Special methods may be needed to confirm its presence or absence in future sampling efforts.
R	Unusable Result	Analyte may or may not be present in the sample.
UR	Unusable Result	Analyte may or may not be present in the sample.



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Annotated Form 1's (Spreadsheet)



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**1 - FORM I
ANALYSIS DATA SHEET**EXC ~~Ø~~N-25E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0059
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0059-01 File ID: E0304063.D
Sampled: 02/28/14 14:00 Prepared: 03/04/14 11:05 Analyzed: 03/05/14 05:58
Solids: 87.40 Preparation: SW-846 3546 Dilution: 500
Batch: B091248 Sequence: S005597 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		3.5	11	
11104-28-2	Aroclor-1221		11	11	
11141-16-5	Aroclor-1232		7.0	11	
53469-21-9	Aroclor-1242		5.8	11	
12672-29-6	Aroclor-1248		6.6	11	
11097-69-1	Aroclor-1254		4.9	11	
11096-82-5	Aroclor-1260 [2C]	81	5.4	11	
37324-23-5	Aroclor-1262		4.6	11	
11100-14-4	Aroclor-1268		6.8	11	

* Values outside of QC limits

11/11/14
5/14/14



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**1 - FORM I
ANALYSIS DATA SHEET****EXC 5S-25E**

Laboratory: Con-Test Analytical Laboratory SDG: 14C0059
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0059-02 File ID: E0304057.D
Sampled: 02/28/14 14:10 Prepared: 03/04/14 11:05 Analyzed: 03/05/14 04:33
Solids: 83.90 Preparation: SW-846 3546 Dilution: 1
Batch: B091248 Sequence S005597 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0073	0.024	
11104-28-2	Aroclor-1221		0.023	0.024	
11141-16-5	Aroclor-1232		0.015	0.024	
53469-21-9	Aroclor-1242		0.012	0.024	
12672-29-6	Aroclor-1248	0.090	0.014	0.024	
11097-69-1	Aroclor-1254		0.010	0.024	
11096-82-5	Aroclor-1260 [2C]	0.23	0.011	0.024	
37324-23-5	Aroclor-1262		0.0097	0.024	
11100-14-4	Aroclor-1268		0.014	0.024	

* Values outside of QC limits

1 - FORM I

ANALYSIS DATA SHEET

EXC 5N-25E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0059
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0059-03 File ID: E0304058.D
Sampled: 02/28/14 14:20 Prepared: 03/04/14 11:05 Analyzed: 03/05/14 04:46
Solids: 87.70 Preparation: SW-846 3546 Dilution: 1
Batch: B091248 Sequence: S005597 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0071	0.023	
11104-28-2	Aroclor-1221		0.022	0.023	
11141-16-5	Aroclor-1232		0.014	0.023	
53469-21-9	Aroclor-1242		0.012	0.023	
12672-29-6	Aroclor-1248		0.013	0.023	
11097-69-1	Aroclor-1254		0.0098	0.023	
11096-82-5	Aroclor-1260 [2C]	0.041	0.011	0.023	
37324-23-5	Aroclor-1262		0.0094	0.023	
11100-14-4	Aroclor-1268		0.014	0.023	

* Values outside of QC limits



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1 - FORM I ANALYSIS DATA SHEET

EXC 0N-35E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0059
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14C0059-04 File ID: E0304044.D
 Sampled: 03/03/14 13:45 Prepared: 03/04/14 11:05 Analyzed: 03/05/14 01:47
 Solids: 82.80 Preparation: SW-846 3546 Dilution: 10
 Batch: 8091248 Sequence: S005597 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.075	0.24	
11104-28-2	Aroclor-1221		0.24	0.24	
11141-16-5	Aroclor-1232		0.15	0.24	
53469-21-9	Aroclor-1242		0.12	0.24	
12672-29-6	Aroclor-1248 [2C]	0.17 $\overline{J}$	0.14	0.24	$\neq$
11097-69-1	Aroclor-1254		0.10	0.24	
11096-82-5	Aroclor-1260 [2C]	1.2	0.12	0.24	
37324-23-5	Aroclor-1262		0.099	0.24	
11100-14-4	Aroclor-1268		0.14	0.24	

* Values outside of QC limits

03/05/14
14-11-14

1 - FORM I

ANALYSIS DATA SHEET

EXC 5S-35E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0059
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0059-05 File ID: E0304068.D
Sampled: 03/03/14 14:00 Prepared: 03/04/14 11:05 Analyzed: 03/05/14 07:02
Solids: 81.20 Preparation: SW-846 3546 Dilution: 4000
Batch: B091248 Sequence: S005597 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		31	99	
11104-28-2	Aroclor-1221		97	99	
11141-16-5	Aroclor-1232		61	99	
53469-21-9	Aroclor-1242		50	99	
12672-29-6	Aroclor-1248	830	57	99	
11097-69-1	Aroclor-1254		42	99	
11096-82-5	Aroclor-1260 [2C]	370	47	99	
37324-23-5	Aroclor-1262		40	99	
11100-14-4	Aroclor-1268		59	99	

* Values outside of QC limits

14C0059



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1 - FORM I ANALYSIS DATA SHEET

EXC 5N-35E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0059
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14C0059-06 File ID: E0304061.D
 Sampled: 03/03/14 14:05 Prepared: 03/04/14 11:05 Analyzed: 03/05/14 05:33
 Solids: 79.00 Preparation: SW-846 3546 Dilution: 1
 Batch: B091248 Sequence: S005597 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0078	0.025	
11104-28-2	Aroclor-1221		0.025	0.025	
11141-16-5	Aroclor-1232		0.016	0.025	
53469-21-9	Aroclor-1242		0.013	0.025	
12672-29-6	Aroclor-1248	0.048	0.015	0.025	
11097-69-1	Aroclor-1254		0.011	0.025	
11096-82-5	Aroclor-1260 [2C]	0.029	0.012	0.025	
37324-23-5	Aroclor-1262		0.010	0.025	
11100-14-4	Aroclor-1268		0.015	0.025	

* Values outside of QC limits

LUC
5/14/14

1 - FORM I

ANALYSIS DATA SHEET

EXC 0N-45E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0059
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0059-07 File ID: E0304062.D
Sampled: 03/03/14 14:10 Prepared: 03/04/14 11:05 Analyzed: 03/05/14 05:45
Solids: 84.20 Preparation: SW-846 3546 Dilution: 50
Batch: B091248 Sequence: S005597 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.36	1.2	
11104-28-2	Aroclor-1221		1.2	1.2	
11141-16-5	Aroclor-1232		0.73	1.2	
53469-21-9	Aroclor-1242		0.60	1.2	
12672-29-6	Aroclor-1248 [2C]	3.0	0.68	1.2	
11097-69-1	Aroclor-1254		0.51	1.2	
11096-82-5	Aroclor-1260 [2C]	4.4	0.56	1.2	
37324-23-5	Aroclor-1262		0.48	1.2	
11100-14-4	Aroclor-1268		0.71	1.2	

* Values outside of QC limits



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77

1 - FORM I ANALYSIS DATA SHEET

EXC 5S-45E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0059
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0059-08 File ID: E0304048.D
Sampled: 03/03/14 14:20 Prepared: 03/04/14 11:05 Analyzed: 03/05/14 02:38
Solids: 83.00 Preparation: SW-846 3546 Dilution: 1D
Batch: B091248 Sequence: S005597 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.075	0.24	
11104-28-2	Aroclor-1221		0.24	0.24	
11141-16-5	Aroclor-1232		0.15	0.24	
53469-21-9	Aroclor-1242		0.12	0.24	
12672-29-6	Aroclor-1248		0.14	0.24	
11097-69-1	Aroclor-1254		0.10	0.24	
11096-82-5	Aroclor-1260 [2C]	2.2	0.12	0.24	
37324-23-5	Aroclor-1262		0.099	0.24	
11100-14-4	Aroclor-1268		0.14	0.24	

* Values outside of QC limits



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1 - FORM I ANALYSIS DATA SHEET

EXC 5N-45E

Laboratory: Con-Test Analytical Laboratory SOG: 14C0059
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0059-09 File ID: E0304064.D
Sampled: 03/03/14 14:30 Prepared: 03/04/14 11:05 Analyzed: 03/05/14 06:11
Solids: 82.50 Preparation: SW-846 3546 Dilution: 1
Batch: R091248 Sequence: S005597 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0074	0.024	
11104-28-2	Aroclor-1221		0.024	0.024	
11141-16-6	Aroclor-1232		0.015	0.024	
53469-21-9	Aroclor-1242		0.012	0.024	
12672-29-6	Aroclor-1248		0.014	0.024	
11097-69-1	Aroclor-1254		0.010	0.024	
11096-82-5	Aroclor-1260		0.012	0.024	
37324-23-5	Aroclor-1262		0.0098	0.024	
11100-14-4	Aroclor-1268		0.014	0.024	

* Values outside of QC limits

18



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87

19

1 - FORM I ANALYSIS DATA SHEET

EXC 0N-53E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0059
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0059-10 File ID: E0304065.D
Sampled: 03/03/14 15:00 Prepared: 03/04/14 11:05 Analyzed: 03/05/14 06:24
Solids: 75.70 Preparation: SW-846 3546 Dilution: 1
Batch: B091248 Sequence: S005597 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0082	0.026	
11104-28-2	Aroclor-1221		0.026	0.026	
11141-16-5	Aroclor-1232		0.016	0.026	
53469-21-8	Aroclor-1242		0.013	0.026	
12572-29-6	Aroclor-1248	0.049	0.015	0.026	
11097-69-1	Aroclor-1254		0.011	0.026	
11096-82-5	Aroclor-1260	0.16	0.013	0.026	
37324-23-5	Aroclor-1262		0.011	0.026	
11100-14-4	Aroclor-1268		0.016	0.026	

* Values outside of QC limits

14/1/14



38 Spruce Street * East Longmeadow, MA 01026 * FAX 413/525-6405 * TEL. 413/525-2332

1 - FORM I ANALYSIS DATA SHEET

EXC 0N-73E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0059
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14C0059-11 File ID: E0304066.D
 Sampled: 03/03/14 15:20 Prepared: 03/04/14 11:05 Analyzed: 03/05/14 06:37
 Solids: 80.60 Preparation: SW-846 3546 Dilution: 1
 Batch: B09124B Sequence: S005597 Calibration: 1400045 Instrument: ECD5

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0077	0.025	
11104-28-2	Aroclor-1221		0.024	0.025	
11141-16-5	Aroclor-1232		0.015	0.025	
53469-21-9	Aroclor-1242		0.013	0.025	
12672-29-6	Aroclor-1248	0.043	0.014	0.025	
11097-69-1	Aroclor-1254		0.011	0.025	
11096-82-5	Aroclor-1260	0.12	0.012	0.025	
37324-23-5	Aroclor-1262		0.010	0.025	
11100-14-4	Aroclor-1268		0.015	0.025	

* Values outside of QC limits

04/14/14



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

1 - FORM I
ANALYSIS DATA SHEET
EXC ~~ON~~ 25E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0059
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0059-01
Sampled: 02/28/14 14:00
% Solids: 87.40

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	87.4			1		6091255	03/05/14 07:16	SM 2540G

CLW
3/4/14



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1 - FORM I
ANALYSIS DATA SHEET
EXC 5S-25E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0059
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0059-02
Sampled: 02/28/14 14:10
% Solids: 83.90

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	83.9			1		B091255	03/05/14 07:16	SM 2540G

44
3/4/14



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1 - FORM I
ANALYSIS DATA SHEET
EXC 5N-25E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0059
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0059-03
Sampled: 02/28/14 14:20
% Solids: 87.70

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	87.7			1		B091255	03/05/14 07.16	SM 2540G

4-23-14
2/28/14



228

24

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1 - FORM I
ANALYSIS DATA SHEET
EXC 0N-35E

Laboratory: Con-Test Analytical Laboratory

SDG: 14C0059

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14C0059-04

Sampled: 03/03/14 13:45

% Solids: 82.80

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	82.8			1		B091255	03/05/14 07:16	SM 2540G

14C0059-04



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1 - FORM I
ANALYSIS DATA SHEET
EXC 5S-35E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0059
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0059-05
Sampled: 03/03/14 14:00
% Solids: 81.20

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	81.2			1		B091255	03/05/14 07:16	SM 2540G

WSP
3/14/14



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1 - FORM I
ANALYSIS DATA SHEET
EXC 5N-35E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0059
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0059-06
Sampled: 03/03/14 14:05
% Solids: 79.00

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	79.0			1		B091255	03/05/14 07:16	SM 7540G

11/05/14
S. J. J.



231

27

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1 - FORM I
ANALYSIS DATA SHEET
EXC 0N-45E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0059
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0059-07
Sampled: 03/03/14 14:10
% Solids: 84.20

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	84.2			1		B091255	03/05/14 07.16	SM 2540G

14C0059
03/05/14



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1 - FORM I
ANALYSIS DATA SHEET
EXC 5S-45E

Laboratory: Con-Test Analytical Laboratory

SDG: 14C0059

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14C0059-08

Sampled: 03/03/14 14:20

% Solids: 83.00

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	83.0			1		B091255	03/05/14 07:16	SM 2540G

03/05/14



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1 - FORM I
ANALYSIS DATA SHEET
EXC 5N-45E

Laboratory: Con-Test Analytical Laboratory

SDG: 14C0059

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14C0059-09

Sampled: 03/03/14 14:30

% Solids: 82.50

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	82.5			1		B091255	03/05/14 07:16	SM 2540G



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1 - FORM I
ANALYSIS DATA SHEET
EXC 0N-53E

Laboratory: Con-Test Analytical Laboratory SOG: 14C0059
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0059-10
Sampled: 03/03/14 15:00
% Solids: 75.70

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	75.7			1		B091255	03/05/14 07:16	SM 2540G

14C0059-10



235

31

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1 - FORM I
ANALYSIS DATA SHEET
EXC 0N-73E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0059
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0059-11
Sampled: 03/03/14 15:20
% Solids: 80.60

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	80.6			1		B091255	03/05/14 07:16	SM 25403

104-1
5/2/14



ECT.CON INC.

Environmental and Computer
Technology Consultants

Support Documentation

Laboratory Case Narrative

March 5, 2014

Dave Bruchard
WSP
5 Sullivan Street
Cazenovia, NY 13035

Project Location: 5140 Site - Yorkville, NY
Client Job Number:
Project Number: 0032927/005
Laboratory Work Order Number: 14C0059

Enclosed are results of analyses for samples received by the laboratory on March 4, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Aaron L. Benoit
Project Manager

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

WSP
5 Sullivan Street
Cazenovia, NY 13035
ATTN: Dave Bouchard

REPORT DATE: 05/2014

PURCHASE ORDER NUMBER

PROJECT NUMBER 0032927-005

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14C0059

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

PROJECT LOCATION 5140 Site - Yorkville, NY

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
EXC ON-25E	14C0059-01	Soil		SM 2540G SW-846 8082A	
EXC SS-25E	14C0059-02	Soil		SM 2540G SW-846 8082A	
EXC SN-25E	14C0059-03	Soil		SM 2540G SW-846 8082A	
EXC ON-35E	14C0059-04	Soil		SM 2540G SW-846 8082A	
EXC SS-35E	14C0059-05	Soil		SM 2540G SW-846 8082A	
EXC SN-35E	14C0059-06	Soil		SM 2540G SW-846 8082A	
EXC ON-45E	14C0059-07	Soil		SM 2540G SW-846 8082A	
EXC SS-45E	14C0059-08	Soil		SM 2540G SW-846 8082A	
EXC SN-45E	14C0059-09	Soil		SM 2540G SW-846 8082A	
EXC ON-53E	14C0059-10	Soil		SM 2540G SW-846 8082A	
EXC ON-73E	14C0059-11	Soil		SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

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

SW-846 8082A

Qualifications:

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Sample(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]
14C0059-01[EXC DN-25E], 14C0059-05[EXC SS-35T], 14C0059-07[EXC SN-45T]

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

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



Michael A. Erickson
Laboratory Director

Chain of Custody

CHAIN OF CUSTODY RECORD

Page 31 of 34

Project Number: 82927/005		Site and Location: 5140 Commercial Drive, Yorkville		Matrices: S = Soil A = Air B = Bulk W = Wipe Th = Toilet OW = Only Waste O = Other		Number of Containers		Remarks	
Contact Name: Dave Baughman		Contact Email: Dave.Baughman@WSP.com		Sample Identification:		Depth		Time	
Sample Name: Ken D. Sullivan		Signature: [Signature]		Sample Identification:		Depth		Time	
Sample Identification:		Depth		Time		Matrix		Remarks	
01	Exc ON - 25E	13ft	2/28/14	1400	S	1	X	High Conc. of PCBs	
02	Exc SS - 25E	6	2/28/14	1410	S	1	X	Med - Low PCB	
03	Exc SN - 25E	6	2/28/14	1420	S	1	X	"	
04	Exc ON - 35E	12	3/3/14	1345	S	1	X	Potentially High	
05	Exc SS - 35E	6		1400	S	1	X	Med - Low PCB	
06	Exc SN - 35E	6		1405	S	1	X	"	
07	Exc ON - 45E	12		1410	S	1	X	Med - Low PCB	
08	Exc SS - 45E	6		1420	S	1	X	"	
09	Exc SN - 45E	6		1430	S	1	X	"	
10	Exc ON - 53E	6		1500	S	1	X	"	
11	Exc ON - 73E	6		1520	S	1	X	"	
Relinquished by Signature: [Signature]		Date: 3/3/14		Time: 1600		Received by Signature: [Signature]		Date: 3/4/14	
Relinquished by Signature: [Signature]		Date: []		Time: []		Received by Signature: [Signature]		Date: []	
Turn-Around Time: 24-Hours		Tracking Number:		Method of Shipment: FedEx		Laboratory Name: Con-Test Analytica LAB		Laboratory Location: East Longmeadow, MA	
Custody Seal Numbers:		Method of Shipment:		Laboratory Name:		Laboratory Location:		Custody Seal Numbers:	



WSP Environment & Energy

☐ Denver Office: 4600 South Ulster, #930, Denver, CO 80237 / Tel: 303-850-9200
☐ Minneapolis Office: 123 North 3rd St., #808, Minneapolis, MN 55401 / Tel: 612-343-0510
☐ Woburn Office: 300 Trade Center, Suite 4690, Woburn, MA 01801
☒ Cazenovia Office: 5 Sullivan St., Cazenovia, NY 13035 / Tel: 315-655-3900

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestabs.com



Page 1 of 2



Sample Receipt Checklist

CLIENT NAME: WSP RECEIVED BY: PB DATE: 3.4.14

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
 2) Does the chain agree with the samples? Yes No
 If not, explain:
 3) Are all the samples in good condition? Yes No
 If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒
 Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank 2.0 Temperature °C by Temp gun _____

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified Richard Date _____ Time _____

7) Location where samples are stored:

Login

Permission to subcontract samples? Yes No
 (Walk-in clients only) if not already approved
 Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	<u>11</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Closure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
 Doc# 277 # Bisulfate _____ # DI Water _____
 Rev: 4 August 2013 # Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Page 2 of 2

Log-In Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements?

Date/Time:

Doc #277 Rev. 4 August 2013

Log-In Technician Initials: JB

Date/Time: 3.4.14

Worksheets

PERCENT SOLIDS

Preservative - Cool <4C
Hold Time - 7 days

Sample Date	Sample ID	Laboratory ID	Matrix	Preservative	Days to Analysis	Date Analyzed	Dish Wgt	Sample Mass Wet	Sample Mass Dry	Calcd %S	Rptd %S
1 02/28/14	EXC 0N-25E	14C0059-01	Solid	Cool <4C	4	3/4/14	1.037	14.96	13.21	87.4	87.4
2 02/28/14	EXC 5S-25E	14C0059-02	Solid	Cool <4C	4	3/4/14	1.029	15.736	13.362	83.9	83.9
3 02/28/14	EXC 5N-25E	14C0059-03	Solid	Cool <4C	4	3/4/14	1.025	12.627	11.2	87.7	87.7
4 03/03/14	EXC 0N-35E	14C0059-04	Solid	Cool <4C	1	3/4/14	1.024	19.661	16.452	82.8	82.8
5 03/03/14	EXC 5S-35E	14C0059-05	Solid	Cool <4C	1	3/4/14	1.024	11.974	9.918	81.2	81.2
6 03/03/14	EXC 5N-35E	14C0059-06	Solid	Cool <4C	1	3/4/14	1.028	11.913	9.628	79.0	79
7 03/03/14	EXC 0N-45E	14C0059-07	Solid	Cool <4C	1	3/4/14	1.038	24.652	20.931	84.2	84.2
8 03/03/14	EXC 5S-45E	14C0059-08	Solid	Cool <4C	1	3/4/14	1.041	14.495	12.213	83.0	83
9 03/03/14	EXC 5N-45E	14C0059-09	Solid	Cool <4C	1	3/4/14	1.035	13.646	11.44	82.5	82.5
10 03/03/14	EXC 0N-55E	14C0059-10	Solid	Cool <4C	1	3/4/14	1.052	15.477	11.968	75.7	75.7
11 03/03/14	EXC 0N-73E	14C0059-11	Solid	Cool <4C	1	3/4/14	1.04	13.405	11.005	80.6	80.6

Sample
Dup
RMD
RMD Rptd
RMD - ((LCS-LCD)/((LCS+LCSB)/2))*100

Exc-5S-25E Exc-0N-25E

83.9 87.4
87.7 82.9
-4.429 5.285
4.43 5.28

DUPLICATES

EXC 5S-25E

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14C0059
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Laboratory ID:	B091255-DUP1
Batch:	B091255	Initial/Final:	5 g / 5 g
Preparation:	% Solids	Analysis:	SM 2540G
% Solids:	83.90		

ANALYTE	SAMPLE CONCENTRATION (% Wt)	DUPLICATE CONCENTRATION (% Wt)	RPD %	Q	CONTROL LIMIT
% Solids	83.9	87.7	4.43		20

DUPLICATES

EXC ON-25E

Laboratory: Con-Test Analytical Laboratory

Work Order: 14C0059

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: B091255-DUP2

Batch: B091255

Initial/Final: 5 g / 5 g

Preparation: % Solids

Analysis: SM 2540G

% Solids: 87.40

ANALYTE	SAMPLE CONCENTRATION (% Wt)	DUPLICATE CONCENTRATION (% Wt)	RPD %	Q	CONTROL LIMIT
% Solids	87.4	82.9	5.28		20

Hold Times for EC's - R082

Preservative - Cool < 4C
 Hold Time - 7 days to extraction aqueous 14 days to extraction solids 40 days to analysis aqueous and solids

Sample Date	Sample ID	Laboratory ID	Matrix	Preservative	Days to Extraction	Days to Analysis	Date Estimated	DF	Prep Batch
02/28/14	EXC 08-23E	14C0035-01	Solid	Ok	4	1	03/04/14	500X	B091248
02/28/14	EXC 08-23E	14C0035-02	Solid	Ok	4	1	03/04/14	1X	B091248
02/28/14	EXC 08-23E	14C0035-03	Solid	Ok	4	1	03/04/14	1X	B091248
03/03/14	EXC 08-23E	14C0035-04	Solid	Ok	1	1	03/04/14	10X	B091248
03/03/14	EXC 08-23E	14C0035-05	Solid	Ok	1	1	03/04/14	4000X	B091248
03/03/14	EXC 08-23E	14C0035-06	Solid	Ok	1	1	03/04/14	1X	B091248
03/03/14	EXC 08-23E	14C0035-07	Solid	Ok	1	1	03/04/14	50X	B091248
03/03/14	EXC 08-23E	14C0035-08	Solid	Ok	1	1	03/04/14	10X	B091248
03/03/14	EXC 08-23E	14C0035-09	Solid	Ok	1	1	03/04/14	1X	B091248
03/03/14	EXC 08-23E	14C0035-10	Solid	Ok	1	1	03/04/14	1X	B091248
03/03/14	EXC 08-23E	14C0035-11	Solid	Ok	1	1	03/04/14	1X	B091248
03/03/14	EXC 08-23E	14C0035-12	Solid	Ok	1	1	03/04/14	1X	B091248

Calculations for PCBs - R082

Lab limits used for validation unless otherwise noted

Sample	ROD (ARBS)	Compound	PCB 1296
	AMOUNT	AMOUNT SPOILED	%R
EC's	0.2	0.2	100
ECSD	0.21	0.2	100
RPD	0.0		0.0

Recovery = (Amount Found/Amount Spiked)*100

RPD = (EC's-ECSD)/EC's*100

MS/MND Name Lab limits used for validation unless otherwise noted

Calibration NPG June 2008 PCB version used for calculation unless otherwise noted
 *RSD C15-20% Limit C55

Instrument	ICAL	CCV	CCV
Date	2/19/10		
Time			

Initial Calibration Calculation Check

Dose	210214
Instrument	GCDS
Compound	1260 Peak 1
Column	
Reported Average CF	RRT1-05
Calculated Average CF	64325.0306
Reported RSD	5.75%
Calculated RSD	(RRT1-avg)/RRT1*2
	5216000000
RRT1	4.75E-05
RRT2	3.75E-05
RRT3	14000000
RRT4	180400000
RRT5	10889000
RRT6	685330000
SLV	1592.60
	(Sum(N-1)*Avg)
	N
	3
Reported Amount	80990.00
Calculated Amount	80955.980
Compound Area (A1)	4.35E-07
Compound Conc (C1)	%

Continuing Calibration Calculation Check

Date	2/24/14
Time	1001
Instrument	GC11G
Compound	1260 Peak 1
Column	1
Report Area Peak 1	90.05
Calculated Amount	99.012
Compound Area (A1)	67181306
Compound Conc (C1)	00
ICAL RRT Peak 1	8.82E-05
Peak 1	90.003
Peak 2	0.001
Peak 3	99.8.6
Peak 4	101.426
Peak 5	07.5.
Avg Area 1260	102.2572
Rpt Amt : 260	102.26
Excd Amt 1260	100
Rpt %SD	2.2
Calcd %SD	-2.27%

Surrogate Calculation Check

Last limits used for calculation unless noted otherwise
 NPG 10-11045

SAMPLE#

Exc: 55-251

SEMR	AMOUNT	AMOUNT SPIN	%R	FORM 2
TICX	169.477	200	84.7	84.7
TICX	189.907	200	94.9	94.9
DICB 1	111.186	200	55.7	55.7
DICB 2	146.933	200	87.5	87.5

Quantitation Calculation Check

Sample
 Lab ID
 Compound
 Final Result mg/kg
 Instrument

Exc: 55-251
 Lab ID
 Compound
 Final Result mg/kg
 Instrument

Column	Col 1	Col 2	Col 1	Col 2
Peak 1	1.23E+08	119.114	1.572395	0.000
CT	8.02E+05	4.0572645	3.53E+05	3.2033000
Peak 2	1.59E+08	41.0879	1.227526	0.000
CT	1.39E+05	7.12E+05	1.92E+08	1.92E+08
Peak 3	1.02E+08	1.251901	1.21E+08	1.47313200
CT	8.18E+05	8.05E+05	5.627087	1.9822000
Peak 4	1.19E+08	110.7342	1.027119	1.42702400
CT	8.88E+05	7.02E+05	4.136200	5.3452000
Peak 5	2.54E+08	115.6111	1.458248	1.7235530
CT	8.7E+06	1.7E+06	2.02E+08	5.43E+05

Avg Conc mg/L	144.8258	Avg Conc mg/L	45.6557	Avg Conc mg/L	41.8829
Extract Vol g	10.250	Extract Vol g	10.120	Extract Vol g	0.120
Final Vol mL	0	Final Vol mL	0	Final Vol mL	13
DF	500	DF	1	DF	1
Conversion	0.00	Conversion	0.00	Conversion	0.00
%Solids	0.871	%Solids	0.874	%Solids	0.879
Final Conc mg/kg	76.166	Final Conc mg/kg	81.156	Final Conc mg/kg	0.019

Compound
 PCB 1261
 Exc 55-251

Compound
 PCB 1261
 Exc 55-251

2 - FORM II

SYSTEM MONITORING COMPOUND SUMMARY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	SDG:	14C0059
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Instrument:	ECD5

	DCB 1 (30% - 150%)	DCB 2 (30% - 150%)	TCX 1 (30% - 150%)	TCX 2 (30% - 150%)
14C0059-01	*	*	*	* <i>500X</i>
14C0059-02	66.7	83.5	84.7	94.9
14C0059-03	88.7	110	88.9	100
14C0059-04	88.9	99.8	97.8	102
14C0059-05	*	*	*	* <i>400X</i>
14C0059-06	88.0	108	86.6	97.4
14C0059-07	*	*	*	* <i>500X</i>
14C0059-08	90.8	100	80.0	88.5
14C0059-09	83.3	105	85.1	96.7
14C0059-10	91.0	112	88.4	100
14C0059-11	86.5	106	88.8	101
B091248-BLK1	95.8	113	90.1	102
B091248-BS1	104	111	102	107
B091248-BSD1	104	111	100	106

50

Data Path : C:\msdchem\1\DATA\030414A\
 Data File : E0304063.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 5 Mar 2014 5:58 am
 Operator : JMB
 Sample : 14C0059-01@500x Inst : ECD 5
 Misc :
 ALS Vial : 63 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
 Integration File signal 2: 1260-B.E
 Quant Time: Mar 05 06:50:32 2014
 Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-022714.M
 Quant Title : 1260/1016 02/19/14 12/05/13
 Qlast Update : Wed Feb 19 14:18:48 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) SA Tetrachlo...	2.822	3.119	7084200	6848806	0.406	0.453
Spiked Amount	20.000 Range	60 - 150	Recovery	=	2.03%#	2.27%#
2) SA Decachlor...	6.902f	7.431f	7789501	9264636	0.562	0.915 #
Spiked Amount	20.000 Range	60 - 150	Recovery	=	2.61%#	4.58%#
Target Compounds						
3) L1 1016 {1}	3.719	4.206	1628757	1524280	1.919	2.329
4) L1 1016 {2}	0.000	0.000	0	0	N.D.	N.D.
5) L1 1016 {3}	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016 {4}	0.000	4.467	0	3957980	N.D.	14.895 #
7) L1 1016 {5}	4.126	4.686	1670515	1838631	3.605	4.824 #
Sum 1016			3299272	7320891	5.524	22.048
Average 1016					2.762	7.349
8) L7 1260 {1}	5.067	5.584	122.7E6	49872645	139.165	137.255
9) L7 1260 {2}	5.287	5.715	195.0E6	102.4E6	143.492	142.747
10) L7 1260 {3}	5.601	5.880	102.2E6	122.9E6	125.241	152.762
11) L7 1260 {4}	5.800	6.416	116.0E6	98821943	130.711	140.706
12) L7 1260 {5}	6.035	6.569	254.0E6	199.8E6	135.646	145.534
Sum 1260			790.0E6	573.8E6	674.255	719.024
Average 1260					134.851	143.805

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:
John Beane

MAR 05 2014

Data Path : C:\msdchem\1\DATA\030414A\
 Data File : E0304057.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 5 Mar 2014 4:33 am
 Operator : JMB
 Sample : 14C0059-02 Inst : ECD 5
 Misc :
 ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
 Integration File signal 2: 1260-B.E
 Quant Time: Mar 05 04:49:47 2014
 Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-022714.M
 Quant Title : 1260/1016 02/19/14 12/05/13
 QLast Update : Wed Feb 19 14:18:48 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) SA Tetrachlo...	2.822	3.120	2953.4E6	2868.7E6	169.407	189.837
Spiked Amount	20.000 Range	60 - 150	Recovery	=	847.03%#	949.03%#
2) SA Decachlor...	6.903	7.432f	1849.4E6	1689.8E6	133.386	166.933 #
Spiked Amount	20.000 Range	60 - 150	Recovery	=	666.93%#	834.67%#
Target Compounds						
3) L1 1016{1}	3.719	4.205	95495970	83804093	112.519	128.056
4) L1 1016{2}	3.836	4.306f	10138849	18154995	16.403	39.512 #
5) L1 1016{3}	3.865	4.395	20647955	19846237	55.673	67.465
6) L1 1016{4}	4.001f	4.467	22607167	30023050	82.866	112.984 #
7) L1 1016{5}	4.126	4.686	34731362	31444031	74.946	82.507
Sum 1016			183.6E6	183.3E6	342.407	430.523
Average 1016					88.481	86.105
8) L7 1260{1}	5.067	5.584	149.1E6	63308926	169.053	174.233
9) L7 1260{2}	5.287	5.715	235.5E6	132.7E6	173.296	185.014
10) L7 1260{3}	5.601	5.880	119.8E6	154.1E6	146.804	191.487 #
11) L7 1260{4}	5.800	6.416	134.2E6	166.9E6	151.225	237.629 #
12) L7 1260{5}	6.035	6.569	287.5E6	262.9E6	153.530	191.574
Sum 1260			926.2E6	779.9E6	793.903	979.938
Average 1260					158.782	195.988

(f)=RT Delta > 1/2 Window (#)-Amounts differ by > 25% (m)=manual int.

48/60

CHECKED BY:
John B. B. B.

MAR 05 2014

Data Path : C:\msdchem\1\DATA\030414A\
 Data File : E0304057.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 5 Mar 2014 4:33 am
 Operator : JMS
 Sample : 14C0059-02 Inst : ECD 5
 Misc :
 ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: 1248-F.E
 Integration File signal 2: 1248-back.E
 Quant Time: Mar 05 07:26:09 2014
 Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1248-022714.M
 Quant Title : 1248 02/11/14 08/29/13
 QLast Update : Tue Mar 04 16:03:43 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) SA Tetrachlo...	2.822	3.120	2953.4E6	2868.7E6	189.407	189.807
Spiked Amount	20.000 Range	60 - 150	Recovery	=	847.03%#	949.03%#
2) SA Decachlor...	6.903	7.432f	1849.4E6	1689.8E6	133.386	166.933 #
Spiked Amount	20.000 Range	60 - 150	Recovery	=	666.93%#	834.67%#
Target Compounds						
3) L5 1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L5 1248{2}	0.000	4.467	0	30023050	N.D. d	76.934 #
5) L5 1248{3}	4.126	4.686	34731362	31444031	64.944	62.661
6) L5 1248{4}	4.448	4.989	40279248	37235539	65.641	67.311
7) L5 1248{5}	4.470	0.000	52277574	0	97.436	N.D. d#
Sum 1248			127.3E6	98702621	228.022	206.906
Average 1248					✓ 76.007	68.969

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:
John Bean

MAR 05 2014



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

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****EXC ON-25E***SW-846 8082A*

Lab Sample ID: 14C0059-01 Date(s) Analyzed: 03/05/2014 03/05/2014
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	76	
	2	0.00	0.00	0.00	81	5.8



38 Spruce Street * East Longmeadow, MA 01026 * FAX 413/525-6405 * TEL. 413/525-2332

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****EXC 5S-25E***SW-846 8082A*

Lab Sample ID: 14C0059-02 Date(s) Analyzed: 03/05/2014 03/05/2014
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1) ID: (mm) GC Column (2) ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	0.090	
	2	0.00	0.00	0.00	0.081	10.2
Aroclor-1260	1	0.00	0.00	0.00	0.19	
	2	0.00	0.00	0.00	0.23	20.6



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

192

55

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

EXC 5N-25E

Lab Sample ID: 14C0059-03 Date(s) Analyzed: 03/05/2014 03/05/2014
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.035	
	2	0.00	0.00	0.00	0.041	16.6

✓

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

EXC 0N-35E

Lab Sample ID: 14C0059-04 Date(s) Analyzed: 03/05/2014 03/05/2014
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	0.16	
	2	0.00	0.00	0.00	0.17	4.2
Aroclor-1260	1	0.00	0.00	0.00	1.1	
	2	0.00	0.00	0.00	1.2	6.0

L



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

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****EXC 5S-35E***SW-846 8082A*

Lab Sample ID: 14C0059-05 Date(s) Analyzed: 03/05/2014 03/05/2014
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	830	
	2	0.00	0.00	0.00	780	6.8
Aroclor-1260	1	0.00	0.00	0.00	300	
	2	0.00	0.00	0.00	370	21.6

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

EXC 5N-35E

Lab Sample ID: 14C0059-06 Date(s) Analyzed: 03/05/2014 03/05/2014
 Instrument ID (1): ECD5 Instrument ID (2): ECD5
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	0.048	
	2	0.00	0.00	0.00	0.046	4.7
Aroclor-1260	1	0.00	0.00	0.00	0.022	
	2	0.00	0.00	0.00	0.029	25.7



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-8405 * TEL. 413/525-2332

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***EXC 0N-45E**

Lab Sample ID: 14C0059-07 Date(s) Analyzed: 03/05/2014 03/05/2014
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	3.0	
	2	0.00	0.00	0.00	3.0	0.0
Aroclor-1260	1	0.00	0.00	0.00	3.8	
	2	0.00	0.00	0.00	4.4	13.6

✓

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

EXC 5S-45E

Lab Sample ID: 14C0059-08 Date(s) Analyzed: 03/05/2014 03/05/2014
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	1.9	
	2	0.00	0.00	0.00	2.2	15.7



61

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****EXC 0N-53E****SW-846 8082A**

Lab Sample ID: 14C0059-10 Date(s) Analyzed: 03/05/2014 03/05/2014
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	0.049	
	2	0.00	0.00	0.00	0.044	11.6
Aroclor-1260	1	0.00	0.00	0.00	0.16	
	2	0.00	0.00	0.00	0.15	7.1

✓



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****EXC 0N-73E***SW-846 8082A*

Lab Sample ID: 14C0059-11 Date(s) Analyzed: 03/05/2014 03/05/2014
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	0.043	
	2	0.00	0.00	0.00	0.040	7.9
Aroclor-1260	1	0.00	0.00	0.00	0.12	
	2	0.00	0.00	0.00	0.12	0.8

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14C0059
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B091248	Laboratory ID:	B091248-BS1
Column:	1	Initial/Final:	10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	0.200	0.20	102	40 - 140
Aroclor-1260	0.200	0.21	104 ✓	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016	0.200	0.21	105	1.99	30	40 - 140
Aroclor-1260	0.200	0.21	106	2.47	30	40 - 140

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14C0059
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B091248	Laboratory ID:	B091248-BS1
Column:	2	Initial/Final	10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	0.200	0.22	112	40 - 140
Aroclor-1260 [2C]	0.200	0.23	113	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016 [2C]	0.200	0.23	115	2.15	30	40 - 140
Aroclor-1260 [2C]	0.200	0.23	116	2.42	30	40 - 140



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**1 - FORM I
ANALYSIS DATA SHEET**

LCS

Laboratory: Con-Test Analytical Laboratory Work Order: 14C0059
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091248-BS1 File ID: E0304034.D
Sampled: Prepared: 03/04/14 11:05 Analyzed: 03/04/14 23:39
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091248 Sequence: S005597 Calibration: 1400045 Instrument: ECD5
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.20	0.031	0.10	
11096-82-5	Aroclor-1260	0.21	0.048	0.10	

1 - FORM I
ANALYSIS DATA SHEET
LCS

Laboratory: Con-Test Analytical Laboratory Work Order: 14C0059
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091248-BS1 File ID: E0304034.D
Sampled: Prepared: 03/04/14 11:05 Analyzed: 03/04/14 23:39
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091248 Sequence: S005597 Calibration: 1400045 Instrument: ECD5
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.22	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.23	0.048	0.10	

67

Data Path : C:\msdchem\1\DATA\030414A\
 Data File : E0304034.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 4 Mar 2014 11:39 pm
 Operator : JMB
 Sample : B091248-B0105X TBA Inst : ECD 5
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
 Integration File signal 2: 1260-B.E
 Quant Time: Mar 05 04:47:52 2014
 Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-022714.M
 Quant Title : 1260/1016 02/19/14 12/05/13
 QLast Update : Wed Feb 19 14:18:48 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) SA Tetrachlo...	2.821	3.119	708.4E6	645.5E6	40.633	42.712
Spiked Amount	20.000	Range	60 - 150	Recovery	= 203.16%#	213.56%#
2) SA Decachlor...	6.902f	7.432	575.2E6	449.6E6	41.487	44.417
Spiked Amount	20.000	Range	60 - 150	Recovery	= 207.44%#	222.02%#
Target Compounds						
3) L1 1016{1}	3.718	4.205	34346252	29100258	40.469	44.466
4) L1 1016{2}	3.817	4.311	25355955	20121091	41.022	43.791
5) L1 1016{3}	3.865	4.395	14901890	13242225	40.180	45.015
6) L1 1016{4}	4.002	4.467	11391448	12040520	41.755	45.311
7) L1 1016{5}	4.126	4.686	19233764	17422853	41.504	45.716
Sum 1016			105.2E6	91926948	204.930	224.300
Average 1016					40.986	44.860
8) L7 1260{1}	5.067	5.583	36570126	16322615	41.468	44.922
9) L7 1260{2}	5.286	5.715	55638197	32144416	40.938	44.811
10) L7 1260{3}	5.601	5.879	33607390	36584355	41.171	45.460
11) L7 1260{4}	5.800	6.416	37177621	31941026	41.889	45.479
12) L7 1260{5}	6.034	6.569	78684608	62234218	42.015	45.345
Sum 1260			241.7E6	179.2E6	207.481	226.016
Average 1260					41.496	45.203

(f)=RT Delta > 1/2 Window (s)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:
 John Banna
 MAR 05 2014

1 - FORM I

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14C0059
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: B091248-BSD1 File ID: E0304035.D
 Sampled: Prepared: 03/04/14 11:05 Analyzed: 03/04/14 23:51
 Solids: Preparation: SW-846 3546 Dilution:
 Batch: B091248 Sequence: S005697 Calibration: 1400045 Instrument: ECD5
 Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.21	0.031	0.10	
11096-82-5	Aroclor-1260	0.21	0.048	0.10	

1 - FORM I

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14C0059
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: B091248-BSD1 File ID: E0304035.D
 Sampled: Prepared: 03/04/14 11:05 Analyzed: 03/04/14 23:51
 Solids: Preparation: SW-846 3546 Dilution:
 Batch: B091248 Sequence: S005597 Calibration: 1400045 Instrument: ECD5
 Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wat)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.23	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.23	0.048	0.10	

4 - FORM IV METHOD BLANK SUMMARY

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory

Work Order: 14C0059

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Blank ID: B091248-BLK1

Batch: B091248

Prepared: 03/04/2014 11:05

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
LCS Dup	B091248-BSD1	E0304035.D	23:51
LCS	B091248-B51	E0304034.D	23:39
EXC 0N-73E	14C0059-11	E0304066.D	06:37
EXC 0N-53E	14C0059-10	E0304065.D	06:24
EXC 5N-45E	14C0059-09	E0304064.D	06:11
EXC 5S-45E	14C0059-08	E0304048.D	02:38
EXC 0N-45E	14C0059-07	E0304062.D	05:45
EXC 5N-35E	14C0059-06	E0304061.D	05:33
EXC 5S-35E	14C0059-05	E0304068.D	07:02
EXC 0N-35E	14C0059-04	E0304044.D	01:47
EXC 5N-25E	14C0059-03	E0304058.D	04:46
EXC 5S-25E	14C0059-02	E0304057.D	04:33
EXC 0N-25E	14C0059-01	E0304063.D	05:58

1 - FORM I ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 14C0059
Client: WSP Project: 5140 Site - Yorkville, NY-PCR
Matrix: Soil Laboratory ID: B091248-BLK1 File ID: E0304033.D
Sampled: Prepared: 03/04/14 11:05 Analyzed: 03/04/14 23:26
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091248 Sequence: S005597 Calibration: 1400045 Instrument: ECD5
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0062	0.020	
11104-28-2	Aroclor-1221		0.020	0.020	
11141-16-5	Aroclor-1232		0.012	0.020	
53469-21-9	Aroclor-1242		0.010	0.020	
12672-29-6	Aroclor-1248		0.012	0.020	
11097-69-1	Aroclor-1254		0.0086	0.020	
11096-82-5	Aroclor-1260		0.0096	0.020	
37324-23-5	Aroclor-1262		0.0082	0.020	
11100-14-4	Aroclor-1268		0.012	0.020	

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1 - FORM I

ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 14C0059
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: B091248-BLK1 File ID: E0304033.D
 Sampled: Prepared: 03/04/14 11:05 Analyzed: 03/04/14 23:26
 Solids: Preparation: SW-846 3546 Dilution:
 Batch: B091248 Sequence: S005597 Calibration: 1400045 Instrument: ECD5
 Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]		0.0062	0.020	
11104-28-2	Aroclor-1221 [2C]		0.020	0.020	
11141-16-5	Aroclor-1232 [2C]		0.012	0.020	
53469-21-9	Aroclor-1242 [2C]		0.010	0.020	
12672-29-6	Aroclor-1248 [2C]		0.012	0.020	
11097-69-1	Aroclor-1254 [2C]		0.0086	0.020	
11096-82-5	Aroclor-1260 [2C]		0.0096	0.020	
37324-23-5	Aroclor-1262 [2C]		0.0082	0.020	
11100-14-4	Aroclor-1268 [2C]		0.012	0.020	

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PREPARATION BENCH SHEET

220

B091248

Con-Test Analytical Laboratory

Printed: 3/17/2014 2:25:15PM

Matrix: Soil

Prepared using: SV-GC - SW-846 3546

Surrogate used: 1402192

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Location	Client	Extraction Comments
14B0861-02KE1	8082	03/04/14	10	10				Walk in door 3		
14B0861-03	8082	03/04/14	10	10				Walk in door 3		
14B0861-04	8082	03/04/14	10	10				Walk in door 3		
14C0059-01	8082	03/04/14	10.1	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14C0059-02	8082	03/04/14	10.1	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14C0059-03	8082	03/04/14	10	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14C0059-04	8082	03/04/14	10	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14C0059-05	8082	03/04/14	10	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14C0059-06	8082	03/04/14	10	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14C0059-07	8082	03/04/14	10.1	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14C0059-08	8082	03/04/14	10	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14C0059-09	8082	03/04/14	10.1	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14C0059-10	8082	03/04/14	10	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14C0059-11	8082	03/04/14	10	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
B091248-BLK1	QC	03/04/14	10	10						
B091248-18S1	QC	03/04/14	10	10	1402138		1000			
B091248-BSD1	QC	03/04/14	10	10	1402138		1000			
B091248-M51	QC	03/04/14	10	10	1402138	14B0861-03	1000			
B091248-M5D1	QC	03/04/14	10	10	1402138	14B0861-03	1000			

Spiking Witnessed By

Date

Preparation Reviewed By

Date

Extracts Received By

Date

Analysis Log

Date	Filename	Lab ID	Sample Info
4 Mar 2014	2:05 pm E0304001.D	ISO	
4 Mar 2014	2:18 pm E0304002.D	ISO	
4 Mar 2014	2:31 pm E0304003.D	ISO	
4 Mar 2014	2:44 pm E0304004.D	1260/1016 100	1402187
4 Mar 2014	2:56 pm E0304005.D	1254 100	1309167
4 Mar 2014	3:09 pm E0304006.D	1248 100	1402225
4 Mar 2014	3:22 pm E0304007.D	1242 100	1402213
4 Mar 2014	3:35 pm E0304008.D	1232/1268 100	1312248
4 Mar 2014	3:48 pm E0304009.D	1221/1262 100	1401037
4 Mar 2014	4:00 pm E0304010.D	ISO	
4 Mar 2014	6:14 pm E0304011.D	ISO	
4 Mar 2014	6:27 pm E0304012.D	1260/1016 20	
4 Mar 2014	6:40 pm E0304013.D	ISO	
4 Mar 2014	6:53 pm E0304014.D	B091210-BLK1@TO-10A TBA	
4 Mar 2014	7:35 pm E0304015.D	ISO	
4 Mar 2014	7:48 pm E0304016.D	ISO	
4 Mar 2014	8:01 pm E0304017.D	B091210-BSL@TO-10A TBA	
4 Mar 2014	8:14 pm E0304018.D	B091210-BSD1@TO-10A TBA	
4 Mar 2014	8:27 pm E0304019.D	14C0005-01@TBA	
4 Mar 2014	8:39 pm E0304020.D	14C0005-02@TBA	
4 Mar 2014	8:52 pm E0304021.D	14C0005-03@TBA	
4 Mar 2014	9:05 pm E0304022.D	14C0005-04@TBA	
4 Mar 2014	9:18 pm E0304023.D	14C0005-05@TBA	
4 Mar 2014	9:31 pm E0304024.D	14C0005-06@TBA	
4 Mar 2014	9:43 pm E0304025.D	14C0005-07@TBA	
4 Mar 2014	9:56 pm E0304026.D	14C0005-08@TBA	
4 Mar 2014	10:09 pm E0304027.D	14C0005-09@TBA	
4 Mar 2014	10:22 pm E0304028.D	14C0005-10@TBA	
4 Mar 2014	10:35 pm E0304029.D	14C0005-11@TBA	
4 Mar 2014	10:47 pm E0304030.D	14C0005-12@TBA	
4 Mar 2014	11:00 pm E0304031.D	ISO	
4 Mar 2014	11:13 pm E0304032.D	1260/1016 100	
4 Mar 2014	11:26 pm E0304033.D	B091248-BLK1@TBA	
4 Mar 2014	11:39 pm E0304034.D	B091248-BSL@5X TBA	
4 Mar 2014	11:51 pm E0304035.D	B091248-BSD1@5X TBA	
5 Mar 2014	12:04 am E0304036.D	14B0804-02RE1@5X TBA	
5 Mar 2014	12:17 am E0304037.D	14B0861-03@5X	
5 Mar 2014	12:30 am E0304038.D	14B0861-04@5X	
5 Mar 2014	12:43 am E0304039.D	14C0059-01@10X	
5 Mar 2014	12:55 am E0304040.D	14C0059-02@10X	
5 Mar 2014	1:08 am E0304041.D	14C0059-03@10X	
5 Mar 2014	1:21 am E0304042.D	ISO	
5 Mar 2014	1:34 am E0304043.D	1260/1016 50	
5 Mar 2014	1:47 am E0304044.D	14C0059-04@10X	
5 Mar 2014	1:59 am E0304045.D	14C0059-05@10X	
5 Mar 2014	2:12 am E0304046.D	14C0059-06@10X	
5 Mar 2014	2:25 am E0304047.D	14C0059-07@10X	
5 Mar 2014	2:38 am E0304048.D	14C0059-08@10X	
5 Mar 2014	2:51 am E0304049.D	14C0059-09@10X	
5 Mar 2014	3:03 am E0304050.D	14C0059-10@10X	
5 Mar 2014	3:16 am E0304051.D	14C0059-11@10X	
5 Mar 2014	3:29 am E0304052.D	B091248-MS1@5X	
5 Mar 2014	3:42 am E0304053.D	B091248-MSD1@5X	
5 Mar 2014	3:55 am E0304054.D	ISO	
5 Mar 2014	4:07 am E0304055.D	1260/1016 100	
5 Mar 2014	4:20 am E0304056.D	14C0059-01	
5 Mar 2014	4:33 am E0304057.D	14C0059-02	
5 Mar 2014	4:46 am E0304058.D	14C0059-03	
5 Mar 2014	4:59 am E0304059.D	14C0059-04	
5 Mar 2014	5:20 am E0304060.D	14C0059-05@2000x	
5 Mar 2014	5:33 am E0304061.D	14C0059-06	
5 Mar 2014	5:45 am E0304062.D	14C0059-07@50x	
5 Mar 2014	5:58 am E0304063.D	14C0059-08@500x	
5 Mar 2014	6:11 am E0304064.D	14C0059-09	
5 Mar 2014	6:24 am E0304065.D	14C0059-10	

Analysis Log

Date	Filename	Lab ID	Sample Info
5 Mar 2014	6:37 am E0304066.D	14C0059-11	
5 Mar 2014	6:49 am E0304067.D	ISO	
5 Mar 2014	7:02 am E0304068.D	14C0059-05@4200X	
5 Mar 2014	7:15 am E0304069.D	ISO	
5 Mar 2014	7:28 am E0304070.D	ISO	
5 Mar 2014	7:41 am E0304071.D	1260/1016 50	
5 Mar 2014	8:27 am E0304072.D	ISO	
5 Mar 2014	8:40 am E0304073.D	14B0861-03@5X TBA	
5 Mar 2014	8:53 am E0304074.D	14B0861-04@5X TBA	
5 Mar 2014	9:06 am E0304075.D	B091248-MS1@5X TBA	
5 Mar 2014	9:18 am E0304076.D	B091248-MSD1@5X TBA	
5 Mar 2014	9:31 am E0304077.D	ISO	
5 Mar 2014	9:44 am E0304078.D	1260/1016 100	

Method Path : C:\msdchem\1\METHODS\PCB methods\
 Method File : 5-1260-021914C.M
 Title : 1260/1016 02/19/14 12/05/13
 Last Update : Wed Feb 19 14:18:48 2014
 Response Via : Initial Calibration

Calibration Files

=0005.D = 5 =E0219014.D
 10 =E0219015.D 20 =E0219016.D 50 =E0219017.D

Compound			5	10	20	50	Avg	%RSD			
1)	SA	Tetrachloro-m...	1.880	1.822	1.810	1.718	1.720	1.642	1.743	E7	5.64
2)	SA	Decachlorobip...	1.520	1.472	1.414	1.334	1.366	1.321	1.386	E7	6.26
3)	L1	1016 [1]			9.069	8.360	8.533	8.323	8.487	E5	4.15
4)	L1	1016 [2]			7.019	6.231	6.094	5.862	6.181	E5	8.27
5)	L1	1016 [3]			4.108	3.688	3.666	3.587	3.709	E5	6.35
6)	L1	1016 [4]			3.306	2.766	2.664	2.492	2.728	E5	12.90
7)	L1	1016 [5]			5.260	4.679	4.594	4.388	4.634	E5	8.39
8)	L7	1260 [1]			9.779	8.699	8.957	8.486	8.819	E5	6.90
9)	L7	1260 [2]			1.507	1.361	1.366	1.312	1.359	E6	6.98
10)	L7	1260 [3]			9.329	8.086	8.129	7.864	8.163	E5	8.72
11)	L7	1260 [4]			9.686	8.907	8.942	8.651	8.875	E5	6.13
12)	L7	1260 [5]			1.935	1.836	1.935	1.865	1.873	E6	3.33

Signal #2 Calibration Files

=0005.D = 5 =E0219014.D
 10 =E0219015.D 20 =E0219016.D 50 =E0219017.D

Compound			5	10	20	50	Avg	%RSD			
1)	SA	Tetrachloro-m...	1.577	1.530	1.501	1.457	1.500	1.509	1.511	E7	2.41
2)	SA	Decachlorobip...	1.123	1.042	0.981	0.935	0.984	1.007	1.012	E7	5.85
3)	L1	1016 1			7.453	6.529	6.387	6.258	6.544	E5	8.13
4)	L1	1016 2			5.244	4.717	4.541	4.282	4.595	E5	9.11
5)	L1	1016 3			3.360	3.006	2.906	2.744	2.942	E5	9.02
6)	L1	1016 4			3.143	2.756	2.618	2.415	2.657	E5	11.88
7)	L1	1016 5			4.478	3.935	3.737	3.491	3.811	E5	11.17
8)	L7	1260 1			4.323	3.749	3.576	3.313	3.634	E5	12.13
9)	L7	1260 2			8.412	7.258	7.069	6.640	7.173	E5	10.59
10)	L7	1260 3			9.425	8.153	7.877	7.448	8.048	E5	10.40
11)	L7	1260 4			8.308	7.166	6.871	6.454	7.023	E5	11.30
12)	L7	1260 5			1.544	1.365	1.348	1.308	1.372	E6	7.29

(#) = Out of Range ### Number of calibration levels exceeded format ###

Calibration Status Report ECD 5

120

Method Path : C:\msdchem\1\METHODS\PCB methods\
 Method File : 5-1260-021914C.M
 Title : 1260/1016 02/19/14 12/05/13
 Last Update : Wed Feb 19 14:18:48 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
3	5	-1	0	C:\msdchem\1\DATA\021914\E0219014.D
4	10	-1	0	C:\msdchem\1\DATA\021914\E0219015.D
5	20	20	0	C:\msdchem\1\DATA\021914\E0219016.D
6	50	50	0	C:\msdchem\1\DATA\021914\E0219017.D
7	100	100	0	C:\msdchem\1\DATA\021914\E0219018.D

#	ID	Update Time	Quant Time	Acquisition Time
3	5	Feb 19 14:18 2014	Feb 19 14:18 2014	19 Feb 2014 11:31 am
4	10	Feb 19 14:18 2014	Feb 19 14:18 2014	19 Feb 2014 11:44 am
5	20	Feb 19 14:18 2014	Feb 19 14:18 2014	19 Feb 2014 11:57 am
6	50	Feb 19 14:18 2014	Feb 19 14:18 2014	19 Feb 2014 12:10 pm
7	100	Feb 19 14:18 2014	Feb 19 14:18 2014	19 Feb 2014 12:23 pm

5-1260-021914C.M Wed Feb 19 14:22:38 2014

Data Path : C:\msdchem\1\DATA\021914\
 Data File : E0219017.E
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Feb 2014 12:10 pm
 Operator : JMB
 Sample : 1260/1016 50 Inst : ECD 5
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
 Integration File signal 2: 1260-B.E
 Quant Time: Feb 19 14:18:47 2014
 Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-021914C.M
 Quant Title : 1260/1016 02/19/14 12/05/13
 QLast Update : Wed Feb 19 14:18:46 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) SA Tetrachlo...	2.978	3.281	859.2E6	728.3E6	46.767	47.410
Spiked Amount	20.000 Range	60 - 150	Recovery	=	233.84%#	237.05%#
2) SA Decachlor...	7.053	7.601	667.0E6	467.3E6	45.415	44.559
Spiked Amount	20.000 Range	60 - 150	Recovery	=	227.08%#	222.79%#
Target Compounds						
3) L1 1016{1}	3.895	4.387	41801191	32645179	46.094	43.804
4) L1 1016{2}	3.996	4.495	31154107	23587284	44.383	44.983
5) L1 1016{3}	4.044	4.581	18460572	15031472	44.893	44.738
6) L1 1016{4}	4.184	4.652	13830220	13780763	41.829	43.839
7) L1 1016{5}	4.309	4.875	23394669	19676012	44.473	43.941
Sum 1016			128.6E6	104.7E6	221.673	221.306
Average 1016					44.335	44.261
8) L7 1260{1}	5.264	5.782	43492799	18742508	44.477	43.353
9) L7 1260{2}	5.484	5.910	68039582	36287832	45.157	43.137
10) L7 1260{3}	5.802	6.064	40430935	40763727	43.339	43.251
11) L7 1260{4}	5.992	6.576	44537456	35831765	45.980	43.128
12) L7 1260{5}	6.213	6.723	91810763	68249766	47.449	44.195
Sum 1260			288.3E6	199.9E6	226.401	217.064
Average 1260					45.280	43.413

{f}=RT Delta > 1/2 Window (#)=Amounts differ by > 25% {m}=manual int.

Method Path : C:\msdchem\1\METHODS\PCB methods\
 Method File : 5-1248-021114C.M
 Title : 1248 02/11/14 08/29/13
 Last Update : Wed Feb 12 09:29:50 2014
 Response Via : Initial Calibration

Calibration Files

=0005.D 5 =E0211017.D 10 =E0211018.D
 20 =E0211011.D 50 =E0211012.D 100 =E0211013.D

Compound	5	10	20	50	100	Avg	%RSD
1) SA Tetrachloro-m...	1.669	1.657	1.504	1.428	1.469	1.388	1.496 E7 8.26
2) SA Decachlorobip...	1.240	1.192	1.167	1.136	1.151	1.130	1.147 E7 5.49
3) L5 1248{1}			4.070	3.576	3.512	3.729	3.703 E5 5.94
4) L5 1248{2}			4.295	4.022	3.810	3.947	3.982 E5 4.89
5) L5 1248{3}			5.847	5.259	5.077	5.361	5.348 E5 5.56
6) L5 1248{4}			6.770	5.913	5.805	6.192	6.136 E5 6.23
7) L5 1248{5}			5.978	5.133	5.097	5.395	5.365 E5 6.73

Signal #2 Calibration Files

=0005.D 5 =E0211017.D 10 =E0211018.D
 20 =E0211011.D 50 =E0211012.D 100 =E0211013.D

Compound	5	10	20	50	100	Avg	%RSD
1) SA Tetrachloro-m...	1.529	1.480	1.413	1.367	1.447	1.443	1.442 E7 3.62
2) SA Decachlorobip...	1.113	1.042	0.963	0.921	0.988	1.019	1.005 E7 6.11
3) L5 1248{1}			3.998	3.321	3.086	3.114	3.302 E5 12.32
4) L5 1248{2}			4.721	3.948	3.656	3.672	3.902 E5 12.39
5) L5 1248{3}			6.004	5.032	4.703	4.762	5.018 E5 11.45
6) L5 1248{4}			6.597	5.552	5.220	5.242	5.532 E5 11.26
7) L5 1248{5}			7.317	6.188	5.867	5.930	6.205 E5 10.38

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method Path : C:\msdchem\1\METHODS\PCB methods\
 Method File : 5-1248-021114C.M
 Title : 1248 02/11/14 08/29/13
 Last Update : Wed Feb 12 09:29:50 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
2	5	5	0	C:\msdchem\1\DATA\021114\E0211017.D
3	10	10	0	C:\msdchem\1\DATA\021114\E0211018.D
4	20	20	0	C:\msdchem\1\DATA\021114\E0211011.D
5	50	50	0	C:\msdchem\1\DATA\021114\E0211012.D
6	100	100	0	C:\msdchem\1\DATA\021114\E0211013.D
7	200	200	0	C:\msdchem\1\DATA\021114\E0211014.D

#	ID	Update Time	Quant Time	Acquisition Time
2	5	Feb 12 09:29 2014	Feb 12 09:06 2014	11 Feb 2014 2:59 pm
3	10	Feb 12 09:29 2014	Feb 12 09:06 2014	11 Feb 2014 3:12 pm
4	20	Feb 12 09:29 2014	Feb 12 09:06 2014	11 Feb 2014 1:41 pm
5	50	Feb 12 09:29 2014	Feb 12 09:06 2014	11 Feb 2014 1:54 pm
6	100	Feb 12 09:29 2014	Feb 12 09:06 2014	11 Feb 2014 2:07 pm
7	200	Feb 12 09:29 2014	Feb 12 09:06 2014	11 Feb 2014 2:20 pm

5-1248-021114C.M Wed Feb 12 09:30:13 2014

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14C0059
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD5	Calibration:	1400045
Lab File ID:	E0304004.D	Calibration Date:	02/11/14 00:00
Sequence:	S005597	Injection Date:	03/04/14
Lab Sample ID:	S005597-CCV1	Injection Time:	14:44

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	96.5				-3.5	15
Aroclor-1016 [2C]	A	100	103				3.3	15
Aroclor-1260	A	100	99.0				-1.0	15
Aroclor-1260 [2C]	A	100	104				4.4	15
Decachlorobiphenyl	A	100	99.2	1.38653E+07	1.3751E+07		-0.8	
Decachlorobiphenyl [2C]	A	100	108	1.012239E+07	1.0969E+07		8.4	✓
Tetrachloro-m-xylene	A	100	97.1	1.74331E+07	1.6927E+07		-2.9	
Tetrachloro-m-xylene [2C]	A	100	104	1.511388E+07	1.5791E+07		4.5	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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170

82

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14C0059
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD5	Calibration:	1400045
Lab File ID:	E0304006.D	Calibration Date:	02/11/14 00:00
Sequence:	S005597	Injection Date:	03/04/14
Lab Sample ID:	S005597-CCV2	Injection Time:	15:09

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1248	A	100	110				9.6	15
Aroclor-1248 [2C]	A	100	100				0.4	15
Decachlorobiphenyl	A	100	99.8	1.38853E+07	1.3839E+07		-0.2	
Decachlorobiphenyl [2C]	A	100	108	1.012239E+07	1.0976E+07		8.4	
Tetrachloro-m-xylene	A	100	98.1	1.74331E+07	1.7098E+07		-1.9	
Tetrachloro-m-xylene [2C]	A	100	106	1.511388E+07	1.5979E+07		5.7	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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173

83

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14C0059
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD5	Calibration:	1400045
Lab File ID:	E0304032.D	Calibration Date:	02/11/14 00:00
Sequence:	S005597	Injection Date:	03/04/14
Lab Sample ID:	S005597-CCV3	Injection Time:	23:13

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	99.7				-0.3	15
Aroclor-1016 [2C]	A	100	106				6.2	15
Aroclor-1260	A	100	102				2.2	15
Aroclor-1260 [2C]	A	100	107				7.5	15
Decachlorobiphenyl	A	100	100	1.38653E+07	1.3864E+07		-0.006 ✓	
Decachlorobiphenyl [2C]	A	100	111	1.012238E+07	1.1281E+07		11.4	
Tetrachloro-m-xylene	A	100	99.4	1.74331E+07	1.7327E+07		-0.6	
Tetrachloro-m-xylene [2C]	A	100	106	1.511388E+07	1.6048E+07		6.2	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\030414A\
 Data File : E0304032.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 4 Mar 2014 11:13 pm
 Operator : JMS
 Sample : 1260/1016 100 Inst : ECD 5
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
 Integration File signal 2: 1260-B.E
 Quant Time: Mar 05 04:47:42 2014
 Quant Method : C:\msdchem\1\METHODS\PCB methods\S-1260-022714.M
 Quant Title : 1260/1016 02/19/14 12/05/13
 QLast Update : Wed Feb 19 14:18:48 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) SA Tetrachlo...	2.821	3.119	1732.736	1604.6E6	99.390	106.171
Spiked Amount	20.000 Range	60 - 150	Recovery	=	496.95%#	530.86%#
2) SA Decachlor...	6.902f	7.432f	1386.4E6	1128.136	99.994	111.446
Spiked Amount	20.000 Range	60 - 150	Recovery	=	499.97%#	557.23%#
Target Compounds						
3) L1 1016{1}	3.718	4.204	86534657	70772498	101.960	108.143
4) L1 1016{2}	3.817	4.311	61678062	49490526	99.785	107.710
5) L1 1016{3}	3.865	4.395	37019686	31369062	99.816	106.635
6) L1 1016{4}	4.002	4.466	26798956	27656612	98.231	104.078
7) L1 1016{5}	4.126	4.686	45768003	39796536	98.761	104.423
Sum 1016			257.826	219.1E6	498.554	530.990
Average 1016					99.711	106.196
8) L7 1260{1}	5.067	5.584	87389394	38030737	99.093	104.665
9) L7 1260{2}	5.287	5.715	138.2E6	76526955	101.707	106.682
10) L7 1260{3}	5.601	5.890	81479450	86996663	99.816	108.103
11) L7 1260{4}	5.800	6.416	91786299	75448332	103.419	107.426
12) L7 1260{5}	6.035	6.569	200.7E6	151.5E6	107.151	110.394
Sum 1260			599.6E6	428.5E6	511.186	537.269
Average 1260					102.237	107.454

{f}=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:
 PETER GRYSCHEWICZ MAR 06 2014

CHECKED BY:
 John Beards MAR 05 2014

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14C0059
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD5	Calibration:	1400045
Lab File ID:	E0304043.D	Calibration Date:	02/11/14 00:00
Sequence:	S005597	Injection Date:	03/05/14
Lab Sample ID:	S005597-CCV4	Injection Time:	01:34

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	50.0	52.7				5.4	15
Aroclor-1016 [2C]	A	50.0	57.4				14.7	15
Aroclor-1260	A	50.0	51.7				3.4	15
Aroclor-1260 [2C]	A	50.0	57.4				14.8	15
Decachlorobiphenyl	A	50.0	48.3	1.38653E+07	1.3382E+07		-3.5	
Decachlorobiphenyl [2C]	A	50.0	55.9	1.012239E+07	1.132E+07		11.8	
Tetrachloro-m-xylene	A	50.0	50.9	1.74331E+07	1.7742E+07		1.8	
Tetrachloro-m-xylene [2C]	A	50.0	53.3	1.511388E+07	1.6108E+07		6.6	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14C0059
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD5	Calibration:	1400045
Lab File ID:	E0304055.D	Calibration Date:	02/11/14 00:00
Sequence:	S005597	Injection Date:	03/05/14
Lab Sample ID:	S005597-CCV5	Injection Time:	04:07

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	97.3				-2.7	15
Aroclor-1016 [2C]	A	100	106				6.3	15
Aroclor-1260	A	100	97.8				-2.2	15
Aroclor-1260 [2C]	A	100	107				6.7	15
Decachlorobiphenyl	A	100	90.9	1.38653E+07	1.2605E+07		-9.1	
Decachlorobiphenyl [2C]	A	100	112	1.012239E+07	1.135E+07		12.1	
Tetrachloro-m-xylene	A	100	98.5	1.74331E+07	1.7169E+07		-1.5	
Tetrachloro-m-xylene [2C]	A	100	106	1.511388E+07	1.6051E+07		6.2	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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7 - FORM VII
CONTINUING CALIBRATION VERIFICATION
SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14C0059
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD5	Calibration:	14D0045
Lab File ID:	E0304071.D	Calibration Date:	02/11/14 00:00
Sequence:	S005597	Injection Date:	03/05/14
Lab Sample ID:	S005597-CCV6	Injection Time:	07:41

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	50.0	52.9				5.7	15
Aroclor-1016 [2C]	A	50.0	57.2				14.5	15
Aroclor-1260	A	50.0	52.3				4.7	15
Aroclor-1260 [2C]	A	50.0	56.5				13.0	15
Decachlorobiphenyl	A	50.0	47.6	1.38653E+07	1.32E+07		-4.8	
Decachlorobiphenyl [2C]	A	50.0	61.5	1.012239E+07	1.2454E+07		23.0	
Tetrachloro-m-xylene	A	50.0	51.1	1.74331E+07	1.7824E+07		2.2	
Tetrachloro-m-xylene [2C]	A	50.0	53.7	1.511368E+07	1.6226E+07		7.4	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data Validation Report

**WSP Group
5140 Commercial Dr.
Yorkville, New York**

SDG# 14C0173



ECT.CON INC.

Environmental and Computer
Technology Consultants

115 Riverview Bend South Unit 2144
Palm Coast, FL 32137
Office (386) 283-9360
Cell (724) 288-1971
e-mail: ectconinc@mac.com

DATA VALIDATION REPORT

Project Name: 5140 Commercial Dr. Yorkville, NY
 SDG # 14C0173

 Performed for: WSP

 Laboratory: Con-test Analytical Laboratory

 Validation Performed by: ECT.CON INC
 Validation Guidance: USEPA CLP National Functional Guidelines for Organic
 Data Review (NFG)

 Validation Report Date: 5/2/14

Samples/Matrix:

	Sample Date	Sample ID	Laboratory ID	Matrix
1	03/06/14	Exc-0N-25E(south)	14C0173-01	Solid
2	03/06/14	Exc-8S-35E	14C0173-02	Solid
3	03/06/14	Exc-54N-35E	14C0173-03	Solid
4	03/06/14	Slab 25N-25E	14C0173-04	Solid
5	03/06/14	Slab 25N-35E	14C0173-05	Solid
6	03/06/14	Slab 25N-45E	14C0173-06	Solid
7	03/06/14	Slab 35N-45E	14C0173-07	Solid
8	03/06/14	Slab 35N-35E	14C0173-08	Solid
9	03/06/14	Slab 35N-70E	14C0173-09	Solid

This sample set consists of the following:

Field Samples :	8
Trip Blanks :	0
Equipment Blanks :	0
Field Blanks :	0
Field Duplicates:	1

Analytical data in this report were reviewed to determine analytical limitations of the data based on specific quality control criteria. This review is performed on a laboratory signed data package. The laboratory signature indicates that the laboratory has reviewed and has certified that the information provided in the data package are correct and complete.

The results of the review are an interpretation of the reported quality control information provided by the laboratory in comparison to the specified validation criteria for the project. Laboratory calculations have been verified as part of the validation. Form 1's and/or analytical results sheets are annotated with the results of the validation.

This evaluation was conducted in accordance with the requested validation guidelines, project requirement and the analytical method. Findings from this validation should be considered when using the analytical data.

The organic findings are based on the validation of the following:

- Sample Preservation
- Holding Times
- Initial Calibration
- Continuing Calibration
- Blanks (lab and field)
- System Monitoring Compounds
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- Laboratory Control Sample (LCS)
- Target Compound Identification
- Compound Quantification and Quantitation Limits
- System Performance

This report consists of the validation findings. This is followed by annotated Form 1's. The final section of the report is supporting documentation. This consists of the Chain of Custody, laboratory case narrative and the validation worksheets.

Project Number: 14C0173

Method Number **Description**
 SW-846 8082 Polychlorinated Biphenyls (PCBs)

					PCB
	Sample Date	Sample ID	Laboratory ID	Matrix	8082
1	03/06/14	Exc-0N-25E(south)	14C0173-01	Solid	X
2	03/06/14	Exc-8S-35E	14C0173-02	Solid	X
3	03/06/14	Exc-54N-35E	14C0173-03	Solid	X
4	03/06/14	Slab 25N-25E	14C0173-04	Solid	X
5	03/06/14	Slab 25N-35E	14C0173-05	Solid	X
6	03/06/14	Slab 25N-45E	14C0173-06	Solid	X
7	03/06/14	Slab 35N-45E	14C0173-07	Solid	X
8	03/06/14	Slab 35N-35E	14C0173-08	Solid	X
9	03/06/14	Slab 35N-70E	14C0173-09	Solid	X

9

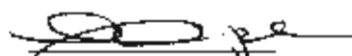
FINDINGS

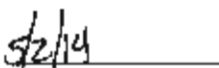
POLYCHLORINATED BIPHENYLS

1. Positive results less than the reporting limits were qualified as estimated, "J", due to uncertainty near the detection limit.

NOTES**POLYCHLORINATED BIPHENYLS**

- A. On instrument ECD 9's analytical sequence, standards for Aroclor 1232, 1221, 1262, and 1268 are listed as part of the sequence. The quantitation reports for these compounds were not included in the data package. This is noted for completeness only. Data were not qualified on this basis.
- B. The sample form 1 for Exc-0N-25E(South) was mislabeled as Exc-ON-25E(South). The form 1 was corrected by the reviewer. Data were not qualified on this basis.


Data Reviewer


Date

Field Duplicates

Calculated RPD for positive results only.

ND – Nondetected results, – RPD not calculated.

14C0173-08	14C0173-09		
Sample ID	Duplicate ID	Parameter	RPD
Slab 35N-35E	Slab 35N-70E		
0.029	ND	PCBs 1254	#VALUE!
0.11	0.029	PCBs 1260	29%

Glossary of Data Qualifiers

U	Not Detected	The associated number indicates approximate sample concentration necessary to be detected.
UI	Not Detected	Quantitation limit may be inaccurate or imprecise.
J	Analyte Present	Reported value is an estimated quantity.
N	Consider Present	Tentative identification. Special methods may be needed to confirm its presence or absence in future sampling efforts.
R	Unusable Result	Analyte may or may not be present in the sample.
UR	Unusable Result	Analyte may or may not be present in the sample.



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Annotated Form 1's *(Spreadsheet)*



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1 - FORM I

ANALYSIS DATA SHEET

EXCØN-25E (South)

✓

Laboratory: Con-Test Analytical Laboratory SDG: 14C0173
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14C0173-01 File ID: I0307063.d
 Sampled: 03/06/14 13:15 Prepared: 03/07/14 10:54 Analyzed: 03/08/14 00:38
 Solids: 84.80 Preparation: SW-846 3546 Dilution: 1
 Batch: B091491 Sequence: S005602 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0070	0.022	
11104-28-2	Aroclor-1221		0.022	0.022	
11141-16-5	Aroclor-1232		0.014	0.022	
53469-21-9	Aroclor-1242		0.011	0.022	
12672-29-6	Aroclor-1248	0.022	0.013	0.022	
11097-69-1	Aroclor-1254 [2C]	0.026	0.0097	0.022	
11096-82-5	Aroclor-1260	0.14	0.011	0.022	
37324-23-5	Aroclor-1262		0.0092	0.022	
11100-14-4	Aroclor-1268		0.013	0.022	

* Values outside of QC limits

6/8/14

1 - FORM I

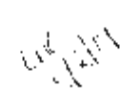
ANALYSIS DATA SHEET

EXC 8S-35E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0173
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14C0173-02 File ID: 10307064.d
 Sampled: 03/06/14 13:30 Prepared: 03/07/14 10:54 Analyzed: 03/08/14 00:50
 Solids: 89.10 Preparation: SW-846 3546 Dilution: 1
 Batch: B091491 Sequence: S005602 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0067	0.022	
11104-28-2	Aroclor-1221		0.021	0.022	
11141-16-5	Aroclor-1232		0.013	0.022	
53469-21-9	Aroclor-1242		0.011	0.022	
12672-29-6	Aroclor-1248		0.013	0.022	
11097-69-1	Aroclor-1254		0.0093	0.022	
11096-82-5	Aroclor-1260		0.010	0.022	
37324-23-5	Aroclor-1262		0.0088	0.022	
11100-14-4	Aroclor-1268		0.013	0.022	

* Values outside of QC limits



1 - FORM I

ANALYSIS DATA SHEET

EXC 54N-35E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0173
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: 14C0173-03 File ID: I0307065.d
 Sampled: 03/06/14 14:00 Prepared: 03/07/14 10:54 Analyzed: 03/08/14 01:03
 Solids: 89.00 Preparation: SW-846 3546 Dilution: 1
 Batch: B091491 Sequence: S005602 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0067	0.022	
11104-28-2	Aroclor-1221		0.021	0.022	
11141-16-5	Aroclor-1232		0.013	0.022	
53469-21-9	Aroclor-1242		0.011	0.022	
12672-29-6	Aroclor-1248	0.049	0.013	0.022	
11097-69-1	Aroclor-1254		0.0093	0.022	
11096-82-5	Aroclor-1260 [2C]	0.051	0.010	0.022	
37324-23-5	Aroclor-1262		0.0089	0.022	
11100-14-4	Aroclor-1268		0.013	0.022	

* Values outside of QC limits

1.06
7/2/14



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**1 - FORM I
ANALYSIS DATA SHEET**

Slab 25N-25E

Laboratory: Con-Test Analytical Laboratory SDG: 14CD173
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0173-04 File ID: 10307066.d
Sampled: 03/06/14 15:05 Prepared: 03/07/14 10:54 Analyzed: 03/08/14 01:15
Solids: 94.20 Preparation: SW-846 3546 Dilution: 1
Batch: B091491 Sequence: S005602 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0064	0.021	
11104-28-2	Aroclor-1221		0.020	0.021	
11141-16-5	Aroclor-1232		0.013	0.021	
53469-21-9	Aroclor-1242		0.011	0.021	
12672-29-6	Aroclor-1248		0.012	0.021	
11097-69-1	Aroclor-1254		0.0089	0.021	
11096-82-5	Aroclor-1260		0.0099	0.021	
37324-23-5	Aroclor-1262		0.0085	0.021	
11100-14-4	Aroclor-1268		0.012	0.021	

* Values outside of QC limits

6/8/14



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62

14

1 - FORM I ANALYSIS DATA SHEET

Slab 25N-35E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0173
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0173-05 File ID: I0307067.d
Sampled: 03/06/14 15:10 Prepared: 03/07/14 10:54 Analyzed: 03/08/14 01:27
Solids: 90.20 Preparation: SW-846 3546 Dilution: 1
Batch: B091491 Sequence: S005602 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0065	0.021	
11104-28-2	Aroclor-1221		0.021	0.021	
11141-16-5	Aroclor-1232		0.013	0.021	
53469-21-9	Aroclor-1242		0.011	0.021	
12672-29-6	Aroclor-1248		0.012	0.021	
11097-69-1	Aroclor-1254		0.0091	0.021	
11096-82-5	Aroclor-1260 [2C]	0.031	0.010	0.021	
37324-23-5	Aroclor-1262		0.0087	0.021	
11100-14-4	Aroclor-1268		0.013	0.021	

* Values outside of QC limits

14

1 - FORM I

ANALYSIS DATA SHEET

Slab 25N-45E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0173
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0173-06 File ID: 10307068.d
Sampled: 03/06/14 15:15 Prepared: 03/07/14 10:54 Analyzed: 03/08/14 01:40
Solids: 93.80 Preparation: SW-846 3546 Dilution: 1
Batch: B091491 Sequence: S005602 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0062	0.020	
11104-28-2	Aroclor-1221		0.020	0.020	
11141-16-5	Aroclor-1232		0.012	0.020	
53469-21-9	Aroclor-1242		0.010	0.020	
12672-29-6	Aroclor-1248		0.012	0.020	
11097-69-1	Aroclor-1254		0.0086	0.020	
11096-82-5	Aroclor-1260		0.0096	0.020	
37324-23-5	Aroclor-1262		0.0082	0.020	
11100-14-4	Aroclor-1268		0.012	0.020	

* Values outside of QC limits

10/10/14



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68

16

1 - FORM I ANALYSIS DATA SHEET

Slab 35N-45E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0173
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0173-07 File ID: I0307069.d
Sampled: 03/06/14 15:20 Prepared: 03/07/14 10:54 Analyzed: 03/08/14 01:52
Solids: 80.50 Preparation: SW-846 3546 Dilution: 1
Batch: B091491 Sequence: S005602 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0074	0.024	
11104-28-2	Aroclor-1221		0.023	0.024	
11141-15-5	Aroclor-1232		0.015	0.024	
53469-21-9	Aroclor-1242		0.012	0.024	
12672-29-6	Aroclor-1248		0.014	0.024	
11097-69-1	Aroclor-1254		0.010	0.024	
11096-82-5	Aroclor-1260		0.011	0.024	
37324-23-5	Aroclor-1262		0.0098	0.024	
11100-14-4	Aroclor-1268		0.014	0.024	

* Values outside of QC limits

14/08/14



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71

17

1 - FORM I ANALYSIS DATA SHEET

Slab 35N-35E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0173
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0173-08 File ID: I0307070.d
Sampled: 03/06/14 15:25 Prepared: 03/07/14 10:54 Analyzed: 03/08/14 02:05
Solids: 91.70 Preparation: SW-846 3546 Dilution: 1
Batch: B091491 Sequence: S005602 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0066	0.021	
11104-28-2	Aroclor-1221		0.021	0.021	
11141-16-5	Aroclor-1232		0.013	0.021	
53469-21-9	Aroclor-1242		0.011	0.021	
12672-29-6	Aroclor-1248		0.012	0.021	
11097-69-1	Aroclor-1254	0.029	0.0091	0.021	
11096-82-5	Aroclor-1260	0.11	0.010	0.021	
37324-23-5	Aroclor-1262		0.0087	0.021	
11100-14-4	Aroclor-1268		0.013	0.021	

* Values outside of QC limits

10/1/14



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**1 - FORM I
ANALYSIS DATA SHEET****Slab 35N-70E**

Laboratory: Con-Test Analytical Laboratory SOG: 14C0173
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0173-09 File ID: 10307071.d
Sampled: 03/06/14 15:30 Prepared: 03/07/14 10:54 Analyzed: 03/08/14 02:17
Solids: 92.10 Preparation: SW-846 3546 Dilution: 1
Batch: B091491 Sequence: S005602 Calibration: 1400043 Instrument: ECD 9

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0065	0.021	
11104-28-2	Aroclor-1221		0.020	0.021	
11141-16-5	Aroclor-1232		0.013	0.021	
53469-21-9	Aroclor-1242		0.011	0.021	
12672-29-6	Aroclor-1248		0.012	0.021	
11097-69-1	Aroclor-1254		0.0090	0.021	
11096-82-5	Aroclor-1260 [2C]	0.029	0.010	0.021	
37324-23-5	Aroclor-1262		0.0086	0.021	
11100-14-4	Aroclor-1268		0.013	0.021	

* Values outside of QC limits

108-
7-17-14



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1 - FORM I
ANALYSIS DATA SHEETEXC ~~ON~~-25E (South)

✓

Laboratory: Con-Test Analytical Laboratory

SDG: 14C0173

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14C0173-01

Sampled: 03/06/14 13:15

% Solids: 84.80

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	84.8			1		B091521	03/10/14 08:44	SM 254DG



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1 - FORM I
ANALYSIS DATA SHEET
EXC 8S-35E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0173
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0173-02
Sampled: 03/06/14 13:30
% Solids: 89.10

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	89.1			1		B091521	03/10/14 08:44	SM 7540G

10/10/14



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1 - FORM I
ANALYSIS DATA SHEET
EXC 54N-35E

Laboratory: Con-Test Analytical Laboratory

SDG: 14C0173

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14C0173-03

Sampled: 03/06/14 14:00

% Solids: 89.00

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	89.0			1		B091521	03/10/14 08:44	SM 2540G



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1 - FORM I
ANALYSIS DATA SHEET
Slab 25N-25E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0173
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0173-04
Sampled: 03/06/14 15:05
% Solids: 94.20

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	94.2			1		B091521	03/10/14 08:44	SM 2540G

14C0173-04



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1 - FORM 1
ANALYSIS DATA SHEET
Slab 25N-35E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0173
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0173-05
Sampled: 03/06/14 15:10
% Solids: 90.20

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	90.2			1		B091521	03/10/14 08:44	SM 2540G



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1 - FORM I
ANALYSIS DATA SHEET
Slab 25N-45E

Laboratory: Con-Test Analytical Laboratory

SDG: 14C0173

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14C0173-06

Sampled: 03/06/14 15:15

% Solids: 93.80

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	93.8			1		6091521	03/10/14 08:44	SM 2540G

24



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1 - FORM I
ANALYSIS DATA SHEET
Slab 35N-45E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0173
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0173-07
Sampled: 03/06/14 15:20
% Solids: 80.50

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	80.5			1		B091521	03/10/14 08.44	SM 2540G

10/10/14

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1 - FORM I
ANALYSIS DATA SHEET
Slab 35N-35E

Laboratory: Con-Test Analytical Laboratory

SDG: 14C0173

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Laboratory ID: 14C0173-08

Sampled: 03/06/14 15:25

% Solids: 91.70

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	91.7			1		B091521	03/10/14 08.44	SM 2540G



270

27

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1 - FORM I
ANALYSIS DATA SHEET
Slab 35N-70E

Laboratory: Con-Test Analytical Laboratory SDG: 14C0173
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: 14C0173-09
Sampled: 03/06/14 15:30
% Solids: 92.10

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	92.1			1		B091521	03/10/14 08:44	SM 2540G

16



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28

Support Documentation

Laboratory Case Narrative

March 11, 2014

Dave Bouchard
WSP
5 Sullivan Street
Cazenovia, NY 13035

Project Location: 5140 Site - Yorkville, NY
Client Job Number:
Project Number: 0032927/005
Laboratory Work Order Number: 14C0173

Enclosed are results of analyses for samples received by the laboratory on March 7, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Aaron L. Benoit
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-8405 * TEL. 413/525-2332

WSP
5 Sullivan Street
Cazenovia, NY 13035
ATTN: Dave Brochant

REPORT DATE: 3/11/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER 0032927-005

ANALYTICAL SUMMARY

WORK ORDER NUMBER 14C0173

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

PROJECT LOCATION 5140 Site - Yorkville, NY

FIELD SAMPLE #	CAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	SCB LAB
EXC ON-25T (South)	14C0173-01	Soil		SM 2540G SW-846 8082A	
EXC 8S-35E	14C0173-02	Soil		SM 2540G SW-846 8082A	
EXC 34N-35E	14C0173-03	Soil		SM 2540G SW-846 8082A	
Slab 25N-25E	14C0173-04	Soil		SM 2540G SW-846 8082A	
Slab 25N-35E	14C0173-05	Soil		SM 2540G SW-846 8082A	
Slab 25N-45E	14C0173-06	Soil		SM 2540G SW-846 8082A	
Slab 35N-45E	14C0173-07	Soil		SM 2540G SW-846 8082A	
Slab 35N-55E	14C0173-08	Soil		SM 2540G SW-846 8082A	
Slab 35N-70E	14C0173-09	Soil		SM 2540G SW-846 8082A	

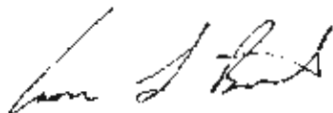
CASE NARRATIVE SUMMARY

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

REVISED REPORT 03/11/2014: Report revised for incorrect sample IDs listed for samples 14C0173-07 through 14C0173-09

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

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



Aaron L. Benoit
Project Chemist

Chain of Custody

CHAIN OF CUSTODY RECORD

14C-0173

Page 1 of 1

Project Number: 32927		Site and Location: 5140 Commercial Drive, Woburn, MA		Matrices: S = Soil A = Air Bu = Bulk W = Wipe Bi = Biologic OW = Only Waste O = Other		Number of Containers		Remarks	
Sample Identification	Depth	Date	Time	Matrix					
Exc ON-ISE (South)	-01 11ft	3/6/14	1315	S	1	X	Cond Br	High Pb	
Exc 8S-3SE	-02 7ft		1330		1	X	Cond Br	High Pb	
Exc 54N-3SE	-03 11ft		1400		1	X	Cond Br	High Pb	
SLAB 25N-2SE	-04 0-6"		1505		1	X			
SLAB 25N-3SE	-05		1510		1	X			
SLAB 26N-4SE	-06		1515		1	X			
SLAB 35N-4SE	-07		1520		1	X			
SLAB 35N-3SE	-08		1525		1	X			
SLAB 35N-7DE	-09		1530		1	X			
Report Limit 0.1 ug/kg (ADFS DEC)									
Relinquished by (Signature): [Signature]		Received by (Signature): [Signature]		Laboratory Name: Cag-Test Analytical					
Relinquished by (Signature): [Signature]		Received by (Signature): [Signature]		Laboratory Location: EAST LONGMOUND, MA					
Turn-Around Time:		Tracking Number:		Custody Seal Numbers:					
				Method of Shipment: FedEx					



WSP Environment & Energy

- ☐ Reston Office: 1190 Sunrise Valley Dr., #300, Reston, VA 20191 / Tel: 703-709-6500
- ☐ Pittsburgh Office: 750 Holiday Dr., #410, Pittsburgh, PA 15220 / Tel: 412-604-1040
- ☐ San Jose Office: 2025 Gateway Place, #435, San Jose, CA 95110 / Tel: 408-453-6100
- ☐ New Jersey Office: 200 Cottontail Ln., Somerset, NJ 08873 / Tel: 732-564-0888
- ☐ Denver Office: 4600 South Ulster, #930, Denver, CO 80237 / Tel: 303-850-9200
- ☐ Minneapolis Office: 123 North 3rd St., #808, Minneapolis, MN 55401 / Tel: 612-343-0510
- ☐ Woburn Office: 300 Trade Center, Suite 4690, Woburn, MA 01801
- ☒ Cazenovia Office: 5 Sullivan St., Cazenovia, NY 13035 / Tel: 315-655-3900

24

39 Spruce St.
East Longmeadow, MA, 01026
P: 413-525-2332
F: 413-525-8405
www.contestlabs.com



Page 1 of 2

Sample Receipt Checklist

CLIENT NAME: WSP RECEIVED BY: CEC DATE: 3/7/14

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples?

If not, explain:

3) Are all the samples in good condition?

If not, explain:

4) How were the samples received:

On Ice ☐ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 2.0°C

5) Are there Dissolved samples for the lab to filter?

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples?

Who was notified RJ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No

(Walk-in clients only) if not already approved

Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	<u>9</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Doc# 277 # Bisulfate _____ # DI Water _____

Rev. 4 August 2013 # Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Page 2 of 2

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) CDC is filled out in ink and legible.	T	
7) CDC is filled out with all pertinent information.	T	
8) Field Sampler's name present on CDC.	T	
9) There are no discrepancies between the sample IDs on the container and the CDC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	NA	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements?

Date/Time:

Doc #277 Rev. 4 August 2013

Log-In Technician Initials:

Date/Time:

CEC

3/7/14 0938

Worksheets

PERCENT SOLIDS

Preservative - Cool < 4C
Hold Time - 7 days

Sample Date	Sample ID	Laboratory ID	Matrix	Preservative	Days to Analysis	Date Analyzed	Dish Wgt	Sample Mass Wet	Sample Mass Dry	Calcd %S	Rptd %S
03/06/14	Exc-0N-25N-35E	14C0173-01	Solid	Cool <4C	2	3/8/14	1.035	11.451	9.868	84.8	84.8
03/06/14	Exc-8S-35E	14C0173-02	Solid	Cool <4C	2	3/8/14	1.025	12.038	10.835	89.1	89.1
03/06/14	Exc-54N-35E	14C0173-03	Solid	Cool <4C	2	3/8/14	1.022	10.282	9.263	89.0	89
03/06/14	Slab 25N-25E	14C0173-04	Solid	Cool <4C	2	3/8/14	1.028	10.713	10.15	94.2	94.2
03/06/14	Slab 25N-35E	14C0173-05	Solid	Cool <4C	2	3/8/14	1.038	12.407	11.296	90.2	90.2
03/06/14	Slab 25N-45E	14C0173-06	Solid	Cool <4C	2	3/8/14	1.041	12.273	11.58	93.8	93.8
03/06/14	Slab 35N-45E	14C0173-07	Solid	Cool <4C	2	3/8/14	1.036	13.923	11.406	80.5	80.5
03/06/14	Slab 35N-35E	14C0173-08	Solid	Cool <4C	2	3/8/14	1.037	11.343	10.488	91.7	91.7
03/06/14	Slab 35N-70T	14C0173-09	Solid	Cool <4C	2	3/8/14	1.041	9.476	8.808	92.1	92.1

Sample

Dup

RPD

RPD Rptd

RPD = ((LCS-LCD)/((LCS+LCD)/2))*100

0.224

0.809

CON-TEST LABORATORY

PERCENT SOLIDS

TEMP IN: 104 °C			dish	dish & sample	time	date	sample	dried dish & sample	time	date	dried sample	% solid		
B091521														
MXG	14B0566-01	1.029	g	16.019	g	09:52	03/08/2014	14.9900	14.131	g	08:25	03/10/2014	13.1020	87.4
MXG	14B0566-02	1.028	g	10.407	g	09:53	03/08/2014	9.3790	9.367	g	08:25	03/10/2014	8.3390	88.9
MXG	14B0566-03	1.037	g	12.927	g	09:54	03/08/2014	11.8900	11.710	g	08:25	03/10/2014	10.6730	89.8
MXG	14B0566-04	1.041	g	10.252	g	09:54	03/08/2014	9.2110	9.236	g	08:25	03/10/2014	8.1950	89.0
MXG	14B0566-05	1.042	g	14.815	g	09:55	03/08/2014	13.7730	13.222	g	08:25	03/10/2014	12.1800	88.4
MXG	14B0566-06	1.046	g	11.038	g	09:56	03/08/2014	9.9920	9.421	g	08:25	03/10/2014	8.3750	83.8
MXG	14B0566-07	1.041	g	11.268	g	09:57	03/08/2014	10.2270	9.489	g	08:26	03/10/2014	8.4480	82.6
MXG	14C0116-01	1.034	g	9.665	g	09:57	03/08/2014	8.6310	9.380	g	08:26	03/10/2014	8.3460	96.7
MXG	14C0116-02	1.036	g	9.374	g	09:57	03/08/2014	8.3380	7.660	g	08:26	03/10/2014	6.6240	79.4
MXG	14C0116-05	1.030	g	13.918	g	09:58	03/08/2014	12.8880	12.897	g	08:26	03/10/2014	11.8670	92.1
MXG	14C0116-06	1.030	g	13.401	g	09:59	03/08/2014	12.3710	12.243	g	08:26	03/10/2014	11.2130	90.6
MXG	14C0116-07	1.037	g	8.989	g	09:59	03/08/2014	7.9520	8.332	g	08:26	03/10/2014	7.2950	91.7
MXG	14C0116-08	1.048	g	11.602	g	09:59	03/08/2014	10.5540	9.423	g	08:26	03/10/2014	8.3750	79.4
MXG	14C0116-09	1.050	g	9.104	g	10:00	03/08/2014	8.0540	8.550	g	08:27	03/10/2014	7.5000	93.1
MXG	14C0116-10	1.047	g	9.899	g	10:00	03/08/2014	8.8520	9.217	g	08:27	03/10/2014	8.1700	92.3
MXG	14C0116-11	1.054	g	10.815	g	10:00	03/08/2014	9.7610	10.465	g	08:27	03/10/2014	9.4110	96.4
MXG	14C0116-13	1.044	g	9.726	g	10:01	03/08/2014	8.6820	9.164	g	08:27	03/10/2014	8.1200	93.5
MXG	14C0116-14	1.044	g	10.604	g	10:01	03/08/2014	9.5600	8.941	g	08:27	03/10/2014	7.8970	82.6
MXG	14C0116-15	1.044	g	7.403	g	10:02	03/08/2014	6.3590	6.701	g	08:27	03/10/2014	5.6570	89.0
MXG	14C0116-16	1.042	g	14.440	g	10:02	03/08/2014	13.3980	13.175	g	08:27	03/10/2014	12.1330	90.6
MXG	14C0116-18	1.041	g	14.035	g	10:03	03/08/2014	12.9940	12.065	g	08:28	03/10/2014	11.0240	84.8
MXG	14C0116-19	1.034	g	9.543	g	10:04	03/08/2014	8.5090	8.338	g	08:28	03/10/2014	7.3040	85.8
MXG	14C0116-21	1.045	g	12.490	g	10:04	03/08/2014	11.4450	10.269	g	08:28	03/10/2014	9.2240	80.6
MXG	14C0116-22	1.042	g	13.793	g	10:05	03/08/2014	12.7510	12.349	g	08:28	03/10/2014	11.3070	88.7
MXG	14C0116-23	1.033	g	6.474	g	10:06	03/08/2014	5.4410	5.884	g	08:29	03/10/2014	4.8510	89.2
MXG	14C0116-24	1.041	g	8.841	g	10:06	03/08/2014	7.8000	8.063	g	08:29	03/10/2014	7.0220	90.0
MXG	14C0116-25	1.026	g	9.187	g	10:07	03/08/2014	8.1610	7.235	g	08:29	03/10/2014	6.2090	76.1
MXG	14C0116-28	1.023	g	12.532	g	10:09	03/08/2014	11.5090	11.274	g	08:29	03/10/2014	10.2510	89.1
MXG	14C0116-29	1.028	g	9.605	g	10:09	03/08/2014	8.5770	8.680	g	08:29	03/10/2014	7.6520	89.2

CON-TEST LABORATORY

PERCENT SOLIDS

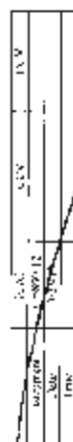
MXG	14C0116-30	1.035	g	9.002	g	10:10	03/08/2014	7.9670	7.567	g	08:29	03/10/2014	6.5320	82.0
MXG	14C0116-31	1.032	g	10.459	g	10:10	03/08/2014	9.4270	8.589	g	08:29	03/10/2014	7.5570	80.2
MXG	14C0116-32	1.043	g	14.566	g	10:11	03/08/2014	13.5230	12.398	g	08:30	03/10/2014	11.3550	84.0
MXG	14C0144-01	1.042	g	9.924	g	10:12	03/08/2014	8.8820	8.931	g	08:30	03/10/2014	7.8890	88.8
MXG	14C0144-02	1.039	g	10.291	g	10:12	03/08/2014	9.2520	9.031	g	08:30	03/10/2014	7.9920	86.4
MXG	14C0144-03	1.045	g	11.287	g	10:13	03/08/2014	10.2420	10.643	g	08:30	03/10/2014	9.5980	93.7
MXG	14C0144-04	1.042	g	10.337	g	10:14	03/08/2014	9.2950	9.352	g	08:30	03/10/2014	8.3100	89.4
MXG	14C0144-05	1.04	g	8.848	g	10:14	03/08/2014	7.8080	8.236	g	08:30	03/10/2014	7.1960	92.2
MXG	14C0144-06	1.031	g	8.868	g	10:14	03/08/2014	7.8370	7.821	g	08:30	03/10/2014	6.7900	86.6
MXG	14C0144-07	1.027	g	10.900	g	10:15	03/08/2014	9.8730	10.086	g	08:31	03/10/2014	9.0590	91.8
MXG	14C0144-08	1.038	g	7.191	g	10:15	03/08/2014	6.1530	6.159	g	08:31	03/10/2014	5.1210	83.2
MXG	14C0144-09	1.033	g	9.053	g	10:16	03/08/2014	8.0200	8.481	g	08:31	03/10/2014	7.4480	92.9
MXG	14C0144-10	1.026	g	18.646	g	10:16	03/08/2014	17.6200	15.878	g	08:31	03/10/2014	14.8520	84.3
MXG	14C0144-11	1.029	g	11.719	g	10:17	03/08/2014	10.6900	10.892	g	08:31	03/10/2014	9.8630	92.3
MXG	14C0144-12	1.039	g	10.747	g	10:17	03/08/2014	9.7080	10.070	g	08:31	03/10/2014	9.0310	93.0
MXG	14C0144-13	1.035	g	9.088	g	10:18	03/08/2014	8.0530	8.224	g	08:31	03/10/2014	7.1890	89.3
MXG	14C0144-14	1.039	g	8.910	g	10:18	03/08/2014	7.8710	8.454	g	08:32	03/10/2014	7.4150	94.2
MXG	14C0144-15	1.046	g	12.893	g	10:19	03/08/2014	11.8470	11.455	g	08:32	03/10/2014	10.4090	87.9
MXG	14C0144-16	1.032	g	11.944	g	10:19	03/08/2014	10.9120	10.577	g	08:32	03/10/2014	9.5450	87.5
MXG	14C0144-17	1.030	g	10.633	g	10:20	03/08/2014	9.6030	9.534	g	08:32	03/10/2014	8.5040	88.6
MXG	14C0144-18	1.032	g	10.111	g	10:21	03/08/2014	9.0790	7.922	g	08:33	03/10/2014	6.8900	75.9
MXG	14C0144-19	1.026	g	11.222	g	10:21	03/08/2014	10.1960	10.432	g	08:33	03/10/2014	9.4060	92.3
MXG	14C0144-20	1.024	g	7.779	g	10:22	03/08/2014	6.7550	6.063	g	08:33	03/10/2014	5.0390	74.6
MXG	14C0144-21	1.037	g	6.720	g	10:23	03/08/2014	5.6830	6.148	g	08:33	03/10/2014	5.1110	89.9
MXG	14C0144-22	1.037	g	12.214	g	10:23	03/08/2014	11.1770	10.647	g	08:33	03/10/2014	9.6100	86.0
MXG	14C0144-23	1.038	g	7.933	g	10:24	03/08/2014	6.8950	6.401	g	08:33	03/10/2014	5.3630	77.8
MXG	14C0144-24	1.040	g	11.459	g	10:25	03/08/2014	10.4190	7.628	g	08:33	03/10/2014	6.5880	63.2
MXG	14C0144-25	1.041	g	8.478	g	10:25	03/08/2014	7.4370	7.796	g	08:33	03/10/2014	6.7550	90.8
MXG	14C0144-26	1.040	g	13.434	g	10:26	03/08/2014	12.3940	11.309	g	08:34	03/10/2014	10.2690	82.9
MXG	14C0144-27	1.037	g	11.788	g	10:26	03/08/2014	10.7510	10.136	g	08:34	03/10/2014	9.0990	84.6
MXG	14C0144-28	1.031	g	7.192	g	10:27	03/08/2014	6.1610	3.477	g	08:34	03/10/2014	2.4460	39.7
MXG	14C0144-29	1.026	g	8.753	g	10:27	03/08/2014	7.7270	7.581	g	08:34	03/10/2014	6.5550	84.8
MXG	14C0144-30	1.027	g	18.291	g	10:28	03/08/2014	17.2640	13.832	g	08:35	03/10/2014	12.8050	74.2
MXG	14C0144-31	1.030	g	11.615	g	10:28	03/08/2014	10.5850	10.317	g	08:35	03/10/2014	9.2870	87.7

CON-TEST LABORATORY

PERCENT SOLIDS

MXG	14C0144-32	1.034	g	13.033	g	10:29	03/08/2014	11.9990	11.490	g	08:35	03/10/2014	10.4560	87.1
MXG	14C0144-33	1.034	g	13.459	g	10:30	03/08/2014	12.4250	12.096	g	08:35	03/10/2014	11.0620	89.0
MXG	14C0144-34	1.031	g	11.103	g	10:30	03/08/2014	10.0720	9.523	g	08:35	03/10/2014	8.4920	84.3
MXG	14C0144-35	1.038	g	11.396	g	10:31	03/08/2014	10.3580	8.944	g	08:35	03/10/2014	7.9060	76.3
MXG	14C0144-36	1.039	g	8.949	g	10:31	03/08/2014	7.9100	3.687	g	08:35	03/10/2014	2.6480	33.5
MXG	14C0144-37	1.042	g	12.078	g	10:32	03/08/2014	11.0360	10.194	g	08:36	03/10/2014	9.1520	82.9
MXG	14C0144-38	1.038	g	11.777	g	10:32	03/08/2014	10.7390	10.293	g	08:36	03/10/2014	9.2550	86.2
MXG	14C0144-39	1.035	g	9.623	g	10:32	03/08/2014	8.5880	8.335	g	08:36	03/10/2014	7.3000	85.0
MXG	14C0144-40	1.038	g	17.479	g	10:33	03/08/2014	16.4410	14.213	g	08:36	03/10/2014	13.1750	80.1
MXG	14C0173-01	1.035	g	11.451	g	10:56	03/08/2014	10.4160	9.868	g	08:37	03/10/2014	8.8330	84.8
MXG	14C0173-02	1.025	g	12.038	g	10:57	03/08/2014	11.0130	10.835	g	08:37	03/10/2014	9.8100	89.1
MXG	14C0173-03	1.022	g	10.282	g	10:57	03/08/2014	9.2600	9.263	g	08:37	03/10/2014	8.2410	89.0
MXG	14C0173-04	1.028	g	10.713	g	10:58	03/08/2014	9.6850	10.150	g	08:37	03/10/2014	9.1220	94.2
MXG	14C0173-05	1.038	g	12.407	g	10:58	03/08/2014	11.3690	11.296	g	08:37	03/10/2014	10.2580	90.2
MXG	14C0173-06	1.041	g	12.273	g	10:59	03/08/2014	11.2320	11.580	g	08:37	03/10/2014	10.5390	93.8
MXG	14C0173-07	1.036	g	13.923	g	10:59	03/08/2014	12.8870	11.406	g	08:37	03/10/2014	10.3700	80.5
MXG	14C0173-08	1.037	g	11.343	g	10:59	03/08/2014	10.3060	10.488	g	08:37	03/10/2014	9.4510	91.7
MXG	14C0173-09	1.041	g	9.476	g	11:00	03/08/2014	8.4350	8.808	g	08:38	03/10/2014	7.7670	92.1
MXG	14C0204-01	1.042	g	12.154	g	11:02	03/08/2014	11.1120	10.235	g	08:38	03/10/2014	9.1930	82.7
MXG	14C0204-02	1.042	g	12.986	g	11:04	03/08/2014	11.9440	9.499	g	08:38	03/10/2014	8.4570	70.8
MXG	14C0204-03	1.035	g	15.201	g	11:05	03/08/2014	14.1660	13.414	g	08:38	03/10/2014	12.3790	87.4
MXG	14C0204-04	1.031	g	12.407	g	11:05	03/08/2014	11.3760	10.283	g	08:38	03/10/2014	9.2520	81.3
MXG	14C0204-05	1.036	g	14.781	g	11:06	03/08/2014	13.7450	12.029	g	08:38	03/10/2014	10.9930	80.0
MXG	DUP1 14B0566-01	1.031	g	13.203	g	11:07	03/08/2014	12.1720	11.759	g	08:39	03/10/2014	10.7280	88.1
MXG	DUP2 14C0116-01	1.031	g	12.292	g	11:08	03/08/2014	11.2610	12.073	g	08:39	03/10/2014	11.0420	98.1
MXG	DUP3 14C0116-11	1.036	g	11.679	g	11:08	03/08/2014	10.6430	11.420	g	08:39	03/10/2014	10.3840	97.6
MXG	DUP4 14C0116-22	1.046	g	11.493	g	11:08	03/08/2014	10.4470	10.423	g	08:39	03/10/2014	9.3770	89.8
MXG	DUP5 14C0116-31	1.036	g	11.240	g	11:08	03/08/2014	10.2040	9.425	g	08:39	03/10/2014	8.3890	82.2
MXG	DUP6 14C0144-10	1.028	g	14.338	g	11:08	03/08/2014	13.3100	12.424	g	08:40	03/10/2014	11.3960	85.6
MXG	DUP7 14C0144-20	1.028	g	7.965	g	11:08	03/08/2014	6.9370	5.998	g	08:40	03/10/2014	4.9700	71.6
MXG	DUP8 14C0144-30	1.022	g	10.524	g	11:08	03/08/2014	9.5020	8.263	g	08:40	03/10/2014	7.2410	76.2
MXG	DUP9 14C0204-02	1.029	g	13.980	g	11:09	03/08/2014	12.9510	10.598	g	08:40	03/10/2014	9.5690	73.9

For the first two cases, the following lemma is useful.

[illegible][illegible]



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2 - FORM II

SYSTEM MONITORING COMPOUND SUMMARY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	SDG:	14C0173
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Instrument:	ECD 9

	DCB 1 (30% - 150%)	DCB 2 (30% - 150%)	TCX 1 (30% - 150%)	TCX 2 (30% - 150%)
14C0173-01	110	104	109	105
14C0173-02	130	123	124	119
14C0173-03	112	107	106	102
14C0173-04	116	110	110	106
14C0173-05	74.3	70.5	83.8	81.5
14C0173-06	131	124	124	119
14C0173-07	89.2	85.4	89.8	86.6
14C0173-08	84.8	90.0	97.2	93.1
14C0173-09	96.9	92.2	93.5	90.1
B091491-BLK1	106	100	98.5	95.0
B091491-BS1	106	102	102	101
B091491-BSD1	132	128	129	129
B091491-MS1	109	104	105	100
B091491-MSD1	83.3	79.4	80.3	77.8

46

Data Path : C:\msdchem\1\data\030714\
 Data File : 10307063.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 8 Mar 2014 12:38 am
 Operator : JMB
 Sample : 14C0173-01 Inst : ECD 9
 Misc :
 ALS Vial : 63 Sample Multiplier: 1

Integration File signal 1: F-1254.E
 Integration File signal 2: B-1254.E
 Quant Time: Mar 10 07:46:17 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\9-1254-022014.M
 Quant Title : 1254 01/07/14 09/17/13
 QLast Update : Fri Feb 21 09:55:07 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Terrachlor...	2.880	3.278	4840.8E6	2154.6E6	218.524	210.481
Spiked Amount	200.000		Recovery	=	109.261	105.241
2) S Decachlor...	6.958	7.606	4132.8E6	1776.1E6	219.307	203.389
Spiked Amount	200.000		Recovery	=	109.65	104.19%
Target Compounds						
3) L6 1254(1)	4.484	5.221	17171958	13749079	27.747	34.324
4) L6 1254(2)	4.686	5.370	26566327	10587572	24.148	22.743
5) L6 1254(3)	4.998	5.759	15723193	7856293	13.860	11.470
6) L6 1254(4)	0.000	0.000	0	0	N.D. d	N.D. d
7) L6 1254(5)	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254			59461478	32192943	65.756	68.537
Average 1254					21.919	22.846

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(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

46/54/60

Data Path : C:\msdchem\1\data\030714\
 Data File : IC307C63.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 8 Mar 2014 12:38 am
 Operator : JMB
 Sample : 14C0173-01 Inst : ECD 9
 Misc :
 ALS Vial : 63 Sample Multiplier: 1

Integration File signal 1: F-1248.E
 Integration File signal 2: B-1248.E
 Quant Time: Mar 10 07:45:38 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\B-1248-022514.L
 Quant Title : 1248 01/07/14 08/29/13
 QLast Update : Fri Feb 21 09:55:42 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds						
1) S Tetrachloro...	2.880	3.278	4832.4E6	2154.6E6	218.148	210.481
Spiked Amount	200.000		Recovery	=	109.07%	105.24%
2) S Decachloro...	6.958	7.606	4129.2E6	1776.1E6	219.116	208.389
Spiked Amount	200.000		Recovery	=	109.56%	104.19%
Target Compounds						
3) L5 1248(1)	3.783	4.387	14586350	6880264	36.520m	31.161
4) L5 1248(2)	4.022	4.652	7500380	3831986	15.882	13.825
5) L5 1248(3)	4.193	4.876	7415327	3526023	11.991	9.995
6) L5 1248(4)	4.518	5.183	8035701	3976895	11.268m	10.021
7) L5 1248(5)	4.540	5.221	13564700	13749079	22.307m	30.988 #
Sum 1248			51122459	31964238	97.970	95.989
Average 1248					19.594	19.138

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\msdchem\1\data\030714\
 Data File : J0307063.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 8 Mar 2014 12:38 am
 Operator : JMB
 Sample : 14C0173-01 Inst : ECD 9
 Misc :
 ALS Vial : 63 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Mar 08 06:42:10 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\9-1260-022014C.M
 Quant Title : 1260/1016 02/20/14 12/05/13
 QLast Update : Fri Feb 21 09:11:02 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.880	3.278	4E40.8E6	3154.6E6	218.524	210.481
Spiked Amount	200.000		Recovery	=	109.26%	105.24%
2) S Decachlor...	6.958	7.606	4132.8E6	1776.1E6	219.307	208.389
Spiked Amount	200.000		Recovery	=	109.65%	104.19%
Target Compounds						
3) L1 1016(1)	3.428	0.000	3933909	0	4.920	N.D. #
4) L1 1016(2)	3.784	4.367	15474431	6880264	16.412	15.277
5) L1 1016(3)	3.885	0.000	1302082	0	1.894	N.D. #
6) L1 1016(4)	3.932	4.582	5057375	2132336	12.393	11.418
7) L1 1016(5)	4.193	4.876	7415392	3526023	14.272	13.818
Sum 1016			33183190	12538623	49.892	40.514
Average 1016					9.978	13.505
8) L7 1260(1)	5.140	5.914	107.1E6	57157847	106.209	104.928
9) L7 1260(2)	5.363	6.069	122.8E6	45009224	77.696	69.595
10) L7 1260(3)	5.677	6.389	123.6E6	58537536	131.537	119.499
11) L7 1260(4)	5.875	6.585	198.7E6	98077934	191.929	176.954
12) L7 1260(5)	6.105	6.733	280.9E6	114.5E6	122.234	100.268
Sum 1260			833.1E6	373.6E6	629.605	571.244
Average 1260					125.921	114.249

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****EXC ON-25E (South)***SW-846 8082A*

Lab Sample ID: 14C0173-01 Date(s) Analyzed: 03/08/2014 03/08/2014
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	0.022	
	2	0.00	0.00	0.00	0.022	0.0
Aroclor-1254	1	0.00	0.00	0.00	0.025	
	2	0.00	0.00	0.00	0.026	5.5
Aroclor-1260	1	0.00	0.00	0.00	0.14	
	2	0.00	0.00	0.00	0.13	8.1



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****EXC 54N-35E***SW-846 8082A*

Lab Sample ID: 14C0173-03 Date(s) Analyzed: 03/08/2014 03/08/2014
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	0.049	
	2	0.00	0.00	0.00	0.047	4.8
Aroclor-1260	1	0.00	0.00	0.00	0.051	
	2	0.00	0.00	0.00	0.051	0.6



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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Slab 25N-35E

Lab Sample ID: 14C0173-05 Date(s) Analyzed: 03/08/2014 03/08/2014
 Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.031	
	2	0.00	0.00	0.00	0.031	1.0

✓



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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

EXC 35N-35E

Lab Sample ID: 14C0173-08 Date(s) Analyzed: 03/08/2014 03/08/2014
 Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	0.029	
	2	0.00	0.00	0.00	0.025	15.5
Aroclor-1260	1	0.00	0.00	0.00	0.11	
	2	0.00	0.00	0.00	0.096	11.8

✓



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***EXC 35N-70E**

Lab Sample ID: 14C0173-09 Date(s) Analyzed: 03/08/2014 03/08/2014
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.024	
	2	0.00	0.00	0.00	0.029	20.5

✓

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Slab 35N-70E

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14C0173
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Analysis:	SW-846 8082A
Batch:	B091491	Preparation:	SW-846 3546
% Solids:	92.10	Laboratory ID:	B091491-MS1
Initial/Final:	10.3 g / 10 mL	Sample Lab ID:	14C0173-09
Column:	1		

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016	0.211	ND	0.18	87.1	40 - 140
Aroclor-1260	0.211	0.024	0.20	83.8	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Aroclor-1016	0.211	0.17	81.1	7.12	30	40 - 140
Aroclor-1260	0.211	0.20	81.6	2.32	30	40 - 140

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Slab 35N-70E

Laboratory: Con-Test Analytical Laboratory

Work Order: 14C0173

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Matrix: Soil

Analysis: SW-846 8082A

Batch: B091491

Preparation: SW-846 3546

% Solids: 92.10

Laboratory ID: B091491-MS1

Initial/Final: 10.3 g / 10 mL

Sample Lab ID: 14C0173-09

Column: 2

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	0.211	ND	0.19	89.6	40 - 140
Aroclor-1260 [2C]	0.211	0.029	0.19	78.5	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	REC.
Aroclor-1016 [2C]	0.211	0.18	83.5	7.09	30	40 - 140
Aroclor-1260 [2C]	0.211	0.19	76.1	2.65	30	40 - 140

1 - FORM I

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Con-Test Analytical Laboratory Work Order: 14C0173
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091491-MS1 File ID: 10307072.d
Sampled: Prepared: 03/07/14 10:54 Analyzed: 03/08/14 02:29
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091491 Sequence: S005602 Calibration: 1400043 Instrument: ECD 9
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.18	0.0065	0.021	
11096-82-5	Aroclor-1260	0.20	0.010	0.021	

1 - FORM I

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Con-Test Analytical Laboratory Work Order 14C0173
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: B091491-MS1 File ID: I0307072.d
 Sampled: Prepared: 03/07/14 10:54 Analyzed: 03/08/14 02:29
 Solids: Preparation: SW-846 3546 Dilution:
 Batch: B091491 Sequence: S005602 Calibration: 1400043 Instrument: ECD 9
 Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.19	0.0065	0.021	
11096-82-5	Aroclor-1260 [2C]	0.19	0.010	0.021	

1 - FORM I
ANALYSIS DATA SHEET**Matrix Spike Dup**

Laboratory: Con-Test Analytical Laboratory Work Order: 14C0173
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091491-MSD1 File ID: 10307073.d
Sampled: Prepared: 03/07/14 10:54 Analyzed: 03/08/14 02:42
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091491 Sequence: S005602 Calibration: 1400043 Instrument: ECD 9
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.17	0.0065	0.021	
11096-82-5	Aroclor-1260	0.20	0.010	0.021	

1 - FORM I ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Con-Test Analytical Laboratory			Work Order:	14C0173
Client:	WSP		Project:	5140 Site - Yorkville, NY-PCB	
Matrix:	Soil	Laboratory ID:	B091491-MSD1	File ID:	10307073.d
Sampled:		Prepared:	03/07/14 10:54	Analyzed:	03/08/14 02:42
Solids:		Preparation:	SW-846 3546	Dilution:	
Batch:	B091491	Sequence:	S005602	Calibration:	1400043 Instrument: ECD 9
Column:	2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.18	0.0065	0.021	
11096-82-5	Aroclor-1260 [2C]	0.19	0.010	0.021	

Data Path : C:\msdchem\1\data\030714\
 Data File : I0307072.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 8 Mar 2014 2:29 am
 Operator : JMB
 Sample : B091491-HS1 Inst : ECD 9
 Misc :
 ALS Vial : 72 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Mar 08 06:42:37 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\9-1260-022014C.M
 Quant Title : 1260/1016 02/20/14 12/05/13
 QLast Update : Fri Feb 21 09:11:02 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlor...	2.880	3.278	4649.7E6	2055.8E6	209.898	200.825
Spiked Amount	200.000				Recovery = 104.950	100.411
2) S Decachlor...	6.957	7.606	4107.6E6	1769.8E6	217.559	207.526
Spiked Amount	200.000				Recovery = 108.96	103.760
Target Compounds						
3) L1 1016{1}	3.428	4.218	133.7E6	26776381	167.167	177.351
4) L1 1016{2}	3.784	4.387	172.2E6	86049603	182.652	191.070
5) L1 1016{3}	3.884	4.496	117.4E6	54514368	170.741	179.289
6) L1 1016{4}	3.931	4.582	72601027	32786331	177.912	175.562
7) L1 1016{5}	4.193	4.876	89451144	44069200	172.165	172.704
Sum 1016			585.3E6	244.2E6	870.638	895.977
Average 1016					174.129	179.193
8) L7 1260{1}	5.139	5.913	195.8E6	100.6E6	194.121	184.620
9) L7 1260{2}	5.361	6.068	296.3E6	115.1E6	187.697	178.014
10) L7 1260{3}	5.676	6.388	176.6E6	86020494	187.918	175.604
11) L7 1260{4}	5.874	6.5E4	193.9E6	97933656	187.334	176.693
12) L7 1260{5}	6.105	6.732	443.2E6	239.9E6	192.882	209.587
Sum 1260			1306.1E6	639.6E6	949.863	924.519
Average 1260					189.973	184.904

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 MARISSA CAGAN
 MAR 10 2014

{f}=RT Delta > 1/2 Window (#)=Amounts differ by > 25. (m)=manual int.

Data Path : C:\msdchem\1\data\030714\
 Data File : 10307073.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 8 Mar 2014 2:42 am
 Operator : JMB
 Sample : B091491-MSD1 Inst : ECD 9
 Misc :
 ALS Vial : 73 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Mar 08 06:42:40 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\9-1260-022014C.M
 Quant Title : 1260/1016 02/20/14 12/35/13
 QLast Update : Fri Feb 21 09:11:02 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.880	3.278	3558.1E6	1592.5E6	160.623	155.570
Spiked Amount	200.000		Recovery	=	90.31%	77.76%
2) S Decachlor...	6.957	7.606	3140.2E6	1354.2E6	166.635	158.890
Spiked Amount	200.000		Recovery	=	83.32%	79.44%
Target Compounds						
3) L1 1016(1)	3.428	4.217	125.5E6	24989722	156.996	165.517
4) L1 1016(2)	3.784	4.387	159.7E6	79253768	169.417	175.990
5) L1 1016(3)	3.883	4.496	109.7E6	50899543	159.643	167.401
6) L1 1016(4)	3.931	4.581	67130640	30695086	164.506	164.364
7) L1 1016(5)	4.193	4.876	83227377	41177494	160.187	161.372
Sum 1016			545.4E6	227.0E6	810.748	836.634
Average 1016					162.150	166.927
8) L7 1260(1)	5.139	5.913	135.2E6	97392598	193.540	173.783
9) L7 1260(2)	5.361	6.068	289.5E6	112.6E6	183.164	174.071
10) L7 1260(3)	5.676	6.388	171.6E6	84027488	182.603	171.535
11) L7 1260(4)	5.873	6.584	188.3E6	95451121	181.898	172.214
12) L7 1260(5)	6.104	6.732	429.4E6	233.3E6	186.872	203.755
Sum 1260			1274.1E6	622.7E6	928.077	900.365
Average 1260					185.615	180.073

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 MARISSA CAGAN
 MAR 10 2014

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



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3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory Work Order: 14C0173
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Preparation: SW-846 3546
Batch: B091491 Laboratory ID: B091491-BS1
Column: 1 Initial/Final: 10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	0.200	0.20	102	40 - 140
Aroclor-1260	0.200	0.20	100 ✓	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	RPD	QC LIMITS REC.
Aroclor-1016	0.200	0.25	127	21.3	30	40 - 140
Aroclor-1260	0.200	0.25	125	22.0	30	40 - 140



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3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14C0173
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B091491	Laboratory ID:	B091491-BS1
Column:	2	Initial/Final:	10 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	0.200	0.20	102	40 - 140
Aroclor-1260 [2C]	0.200	0.20	97.7	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016 [2C]	0.200	0.26	128	22.7	30	40 - 140
Aroclor-1260 [2C]	0.200	0.24	122	22.1	30	40 - 140



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**1 - FORM I
ANALYSIS DATA SHEET**

LCS

Laboratory: Con-Test Analytical Laboratory Work Order: 14C0173
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091491-BS1 File ID: 10307047.d
Sampled: Prepared: 03/07/14 10:54 Analyzed: 03/07/14 21 20
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091491 Sequence: S005602 Calibration: 1400043 Instrument: ECD 9
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.20	0.031	0.10	
11096-82-5	Aroclor-1260	0.20	0.048	0.10	



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**1 - FORM I
ANALYSIS DATA SHEET****LCS**

Laboratory: Con-Test Analytical Laboratory Work Order: 14C0173
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091491-BS1 File ID: I0307047.d
Sampled: Prepared: 03/07/14 10:54 Analyzed: 03/07/14 21:20
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091491 Sequence: S005602 Calibration: 1400043 Instrument: ECD 9
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.20	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.20	0.048	0.10	

66

Data Path : C:\msdchem\1\data\030714\
 Data File : 10307047.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Mar 2014 9:20 pm
 Operator : JMS
 Sample : B091491-ES105X Inst : ECD 9
 Misc :
 ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Mar 08 06:41:22 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\9-1260-022014C.M
 Quant Title : 1260/1016 02/20/14 12/05/13
 Qlast Update : Fri Feb 21 09:11:02 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.880	3.278	902.0E6	413.0E6	40.717	40.350
Spiked Amount	200.000		Recovery	=	20.36%	20.18%
2) S Decachlor...	6.959	7.607	798.5E6	349.2E6	42.370	40.966
Spiked Amount	200.000		Recovery	=	21.18%	20.48%
Target Compounds						
3) L1 1016(1)	3.428	4.218	33197783	6539774	41.519	43.316
4) L1 1016(2)	3.784	4.387	37844121	18872524	40.137	41.906
5) L1 1016(3)	3.984	4.497	27933453	11721106	40.637	38.549
6) L1 1016(4)	3.932	4.582	16770852	7260147	41.098	38.876
7) L1 1016(5)	4.193	4.876	21324454	10831702	41.043	41.065
Sum 1016			137.1E6	56025252	204.434	204.311
Average 1016					40.887	40.862
8) L7 1260(1)	5.140	5.914	42307823	21850386	41.649	40.112
9) L7 1260(2)	5.362	6.070	57416675	25372258	36.324	39.231
10) L7 1260(3)	5.678	6.390	38819751	19567209	41.300	39.945
11) L7 1260(4)	5.876	6.586	38923188	21134211	37.597	38.131
12) L7 1260(5)	6.109	6.734	191.3E6	43473093	44.109	37.972
Sum 1260			278.5E6	131.4E6	200.979	195.391
Average 1260					40.196	39.078

{f}=RT Delta > 1/2 Window {#}=Amounts differ by . 25% {m}=manual int.

CHECKED BY
 MARISSA CAGAN
 MAR 10 2014



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**1 - FORM I
ANALYSIS DATA SHEET**

LCS Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14C0173
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091491-BSD1 File ID: I0307048.d
Sampled: Prepared: 03/07/14 10:54 Analyzed: 03/07/14 21:32
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091491 Sequence: S005602 Calibration: 1400043 Instrument: ECD 9
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.25	0.031	0.10	
11096-82-5	Aroclor-1260	0.25	0.048	0.10	



242

68

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**1 - FORM I
ANALYSIS DATA SHEET**

LCS Dup

Laboratory: Con-Test Analytical Laboratory Work Order: 14CD173
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091491-BSD1 File ID: I0307048.d
Sampled: Prepared: 03/07/14 10:54 Analyzed: 03/07/14 21:32
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091491 Sequence: S005602 Calibration: 1400043 Instrument: ECD 9
Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.26	0.031	0.10	
11096-82-5	Aroclor-1260 [2C]	0.24	0.048	0.10	



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87

69

4 - FORM IV METHOD BLANK SUMMARY

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory

Work Order: 14C0173

Client: WSP

Project: 5140 Site - Yorkville, NY-PCB

Blank ID: B091491-BLK1

Batch: B091491

Prepared: 03/07/2014 10:54

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
Matrix Spike Dup	B091491-MSD1	I0307073.d	02:42
Matrix Spike	B091491-MS1	I0307072.d	02:29
LCS Dup	B091491-BSD1	I0307048.d	21:32
LCS	B091491-BS1	I0307047.d	21:20
EXC 35N-70E	14C0173-09	I0307071.d	02:17
EXC 35N-35E	14C0173-08	I0307070.d	02:05
EXC 35N-45E	14C0173-07	I0307069.d	01:52
Slab 25N-45E	14C0173-06	I0307068.d	01:40
Slab 25N-35E	14C0173-05	I0307067.d	01:27
Slab 25N-25E	14C0173-04	I0307066.d	01:15
EXC 54N-35E	14C0173-03	I0307065.d	01:03
EXC 8S-25E	14C0173-02	I0307064.d	00:50
EXC ON-25E (South)	14C0173-01	I0307063.d	00:38



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227

70

1 - FORM I ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 14C0173
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Matrix: Soil Laboratory ID: B091491-BLK1 File ID: I0307046.d
Sampled: Prepared: 03/07/14 10:54 Analyzed: 03/07/14 21:07
Solids: Preparation: SW-846 3546 Dilution:
Batch: B091491 Sequence: S005602 Calibration: 1400043 Instrument: ECD 9
Column: 1

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0062	0.020	
11104-28-2	Aroclor-1221		0.020	0.020	
11141-16-5	Aroclor-1232		0.012	0.020	
53469-21-9	Aroclor-1242		0.010	0.020	
12672-29-6	Aroclor-1248		0.012	0.020	
11097-69-1	Aroclor-1254		0.0086	0.020	
11096-82-5	Aroclor-1260		0.0096	0.020	
37324-23-5	Aroclor-1262		0.0082	0.020	
11100-14-4	Aroclor-1268		0.012	0.020	

1 - FORM I

ANALYSIS DATA SHEET

Blank

Laboratory: Con-Test Analytical Laboratory Work Order: 14CD173
 Client: WSP Project: 5140 Site - Yorkville, NY-PCB
 Matrix: Soil Laboratory ID: B091491-BLK1 File ID: 10307046.d
 Sampled: Prepared: 03/07/14 10:54 Analyzed: 03/07/14 21:07
 Solids: Preparation: SW-846 3546 Dilution:
 Batch: B091491 Sequence: S005602 Calibration: 1400043 Instrument: ECD 9
 Column: 2

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]		0.0062	0.020	
11104-28-2	Aroclor-1221 [2C]		0.020	0.020	
11141-16-5	Aroclor-1232 [2C]		0.012	0.020	
53469-21-9	Aroclor-1242 [2C]		0.010	0.020	
12672-29-6	Aroclor-1248 [2C]		0.012	0.020	
11097-69-1	Aroclor-1254 [2C]		0.0086	0.020	
11096-82-5	Aroclor-1260 [2C]		0.0096	0.020	
37324-23-5	Aroclor-1262 [2C]		0.0082	0.020	
11100-14-4	Aroclor-1268 [2C]		0.012	0.020	

PREPARATION BENCH SHEET

257

B091491

Con-Test Analytical Laboratory

Printed: 3/17/2014 3:43:27PM

Matrix: Soil

Prepared using: SV-GC - SW-846 3546

Surrogate used: 1402192

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Location	Client	Extraction Comments
14C0173-01	8082	03/07/14	10.5	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14C0173-02	8082	03/07/14	10.4	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14C0173-03	8082	03/07/14	10.4	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14C0173-04	8082	03/07/14	10.3	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14C0173-05	8082	03/07/14	10.5	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14C0173-06	8082	03/07/14	10.7	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14C0173-07	8082	03/07/14	10.4	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14C0173-08	8082	03/07/14	10.3	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
14C0173-09	8082	03/07/14	10.4	10				Walk in door 4	WSP	Soils run undilute - Report to MDL
B091491-BLK1	QC	03/07/14	10	10						
B091491-BS1	QC	03/07/14	10	10	1403029		1000			
B091491-BSDI	QC	03/07/14	10	10	1403029		1000			
B091491-MS1	QC	03/07/14	10.3	10	1403029	14C0173-09	1000			
B091491-MSDI	QC	03/07/14	10.3	10	1403029	14C0173-09	1000			

Spiking Witnessed By

Date

Preparation Reviewed By

Date

Extracts Received By

Date

Analysis Log

Date	Filename	Lab ID	Sample Info
7 Mar 2014	8:23 am I0307001.d	ISO	
7 Mar 2014	8:35 am I0307002.d	ISO	
7 Mar 2014	8:48 am I0307003.d	ISO	
7 Mar 2014	9:00 am I0307004.d	1260/1016 100 ✓	1402167
7 Mar 2014	9:12 am I0307005.d	1254 100 ✓	1309167
7 Mar 2014	9:25 am I0307006.d	1248 100 ✓	1402225
7 Mar 2014	9:37 am I0307007.d	1242 100	1402213
7 Mar 2014	9:50 am I0307008.d	1232/1268 100	1312248
7 Mar 2014	10:02 am I0307009.d	1221/1262 100	1401037
7 Mar 2014	10:14 am I0307010.d	ISO	
7 Mar 2014	10:42 am I0307011.d	ISO	
7 Mar 2014	10:55 am I0307012.d	B091372-BLK1	
7 Mar 2014	11:07 am I0307013.d	B091372-B8105X	
7 Mar 2014	11:19 am I0307014.d	B091372-BSD105X	
7 Mar 2014	11:32 am I0307015.d	14C0115-0105X	
7 Mar 2014	11:44 am I0307016.d	14C0115-0205X	
7 Mar 2014	11:57 am I0307017.d	14C0115-0305X	
7 Mar 2014	12:09 pm I0307018.d	14C0115-0405X	
7 Mar 2014	12:21 pm I0307019.d	14C0115-0505X	
7 Mar 2014	12:34 pm I0307020.d	14C0115-0605X	
7 Mar 2014	12:51 pm I0307021.d	14C0115-0705X	
7 Mar 2014	1:09 pm I0307022.d	ISO	
7 Mar 2014	1:21 pm I0307023.d	14C0115-0805X	
7 Mar 2014	1:34 pm I0307024.d	14C0115-0905X	
7 Mar 2014	1:46 pm I0307025.d	14C0115-1005X	
7 Mar 2014	1:58 pm I0307026.d	B091372-MS105X	
7 Mar 2014	2:11 pm I0307027.d	B091372-MSD105X	
7 Mar 2014	2:23 pm I0307028.d	ISO	
7 Mar 2014	2:36 pm I0307029.d	1260/1016 50	
7 Mar 2014	2:48 pm I0307030.d	14C0115-050100X	
7 Mar 2014	3:00 pm I0307031.d	14C0115-060100X	
7 Mar 2014	3:13 pm I0307032.d	14C0115-070100X	
7 Mar 2014	3:25 pm I0307033.d	14C0115-080250X	
7 Mar 2014	3:38 pm I0307034.d	14C0115-090100X	
7 Mar 2014	3:50 pm I0307035.d	ISO	
7 Mar 2014	4:02 pm I0307036.d	1260/1016 100	
7 Mar 2014	5:55 pm I0307037.d	ISO	
7 Mar 2014	6:07 pm I0307038.d	WIPE LOT CHK	
7 Mar 2014	6:25 pm I0307039.d	P/P SURR 10X 1403083	
7 Mar 2014	7:09 pm I0307040.d	ISO	
7 Mar 2014	7:21 pm I0307041.d	P/P SURR 10X 1403083	
7 Mar 2014	8:17 pm I0307042.d	ISO	
7 Mar 2014	8:30 pm I0307043.d	P/P SURR 10X 1403083 RR	
7 Mar 2014	8:43 pm I0307044.d	ISO	
7 Mar 2014	8:55 pm I0307045.d	1260/1016 100 ✓	
7 Mar 2014	9:07 pm I0307046.d	B091491-BLK1	
7 Mar 2014	9:20 pm I0307047.d	B091491-B8105X	
7 Mar 2014	9:32 pm I0307048.d	B091491-BSD105X	
7 Mar 2014	9:44 pm I0307049.d	14C0173-01010X	
7 Mar 2014	9:57 pm I0307050.d	14C0173-02010X	
7 Mar 2014	10:09 pm I0307051.d	14C0173-03010X	
7 Mar 2014	10:22 pm I0307052.d	14C0173-04010X	
7 Mar 2014	10:34 pm I0307053.d	14C0173-05010X	
7 Mar 2014	10:46 pm I0307054.d	14C0173-06010X	
7 Mar 2014	10:59 pm I0307055.d	14C0173-07010X	
7 Mar 2014	11:11 pm I0307056.d	14C0173-08010X	
7 Mar 2014	11:24 pm I0307057.d	14C0173-09010X	
7 Mar 2014	11:36 pm I0307058.d	B091491-MS1010X	
7 Mar 2014	11:48 pm I0307059.d	B091491-MSD1010X	
8 Mar 2014	12:01 am I0307060.d	ISO	

74

Analysis Log

259

Date	Filename	Lab ID	Sample Info
8 Mar 2014	12:13 am	I0307061.d	ISO
8 Mar 2014	12:26 am	I0307062.d	1260/1016 50 ✓
8 Mar 2014	12:38 am	I0307063.d	14C0173-01
8 Mar 2014	12:50 am	I0307064.d	14C0173-02
8 Mar 2014	1:03 am	I0307065.d	14C0173-03
8 Mar 2014	1:15 am	I0307066.d	14C0173-04
8 Mar 2014	1:27 am	I0307067.d	14C0173-05
8 Mar 2014	1:40 am	I0307068.d	14C0173-06
8 Mar 2014	1:52 am	I0307069.d	14C0173-07
8 Mar 2014	2:05 am	I0307070.d	14C0173-08
8 Mar 2014	2:17 am	I0307071.d	14C0173-09
8 Mar 2014	2:29 am	I0307072.d	B091491-MS1
8 Mar 2014	2:42 am	I0307073.d	B091491-MSD1
8 Mar 2014	2:54 am	I0307074.d	ISO
8 Mar 2014	3:06 am	I0307075.d	ISO
8 Mar 2014	3:19 am	I0307076.d	1260/1016 100 ✓
8 Mar 2014	6:55 am	I0307077.d	ISO
8 Mar 2014	7:08 am	I0307078.d	ISO
8 Mar 2014	7:20 am	I0307079.d	1016/1260 100
8 Mar 2014	1:02 pm	I0307080.d	ISO
8 Mar 2014	1:15 pm	I0307081.d	B091465-BLK10TBA
8 Mar 2014	1:27 pm	I0307082.d	B091465-B0105X TBA
8 Mar 2014	1:39 pm	I0307083.d	B091465-BSD105X TBA
8 Mar 2014	1:52 pm	I0307084.d	14C0135-0105X TBA
8 Mar 2014	2:04 pm	I0307085.d	ISO
8 Mar 2014	2:17 pm	I0307086.d	1260/1016 50

75

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 9-1260-022014C.M
 Title : 1260/1016 02/20/14 12/05/13
 Last Update : Fri Feb 21 09:11:02 2014
 Response Via : Initial Calibration

Calibration Files

5 =I0220013.d 10 =I0220014.d 20 =I0220015.d
 50 =I0220016.d 100 =I0220017.d 200 =I0220018.d

	Compound	5	10	20	50	100	200	Avg	%RSD
1)	S Tetrachloro-m...	2.094	2.148	2.196	2.174	2.278	2.310	2.215	E7 3.81
2)	S Decachlorobip...	1.891	1.865	1.855	1.816	1.881	1.931	1.884	E7 2.43
3)	L1 1016{1}			8.807	8.008	8.185	7.502	7.996	E5 6.92
4)	L1 1016{2}			9.790	9.084	9.463	9.404	9.429	E5 2.66
5)	L1 1016{3}			7.647	6.775	6.879	6.574	6.674	E5 6.67
6)	L1 1016{4}			4.417	3.971	4.132	3.956	4.081	E5 5.00
7)	L1 1016{5}			5.859	5.207	5.082	4.933	5.196	E5 7.52
8)	L7 1260{1}			1.102	0.970	1.001	0.984	1.009	E6 5.29
9)	L7 1260{2}			1.713	1.554	1.552	1.544	1.581	E6 4.70
10)	L7 1260{3}			1.034	0.932	0.922	0.938	0.940	E6 5.74
11)	L7 1260{4}			1.119	1.023	1.012	1.013	1.035	E6 4.52
12)	L7 1260{5}			2.297	2.215	2.303	2.332	2.298	E6 2.18

Signal #2 Calibration Files

5 =I0220013.d 10 =I0220014.d 20 =I0220015.d
 50 =I0220016.d 100 =I0220017.d 200 =I0220018.d

	Compound	5	10	20	50	100	200	Avg	%RSD
1)	S Tetrachloro-m...	0.987	0.992	1.019	1.001	1.046	1.060	1.024	E7 3.12
2)	S Decachlorobip...	9.321	8.817	8.246	8.078	8.224	8.528	8.523	E6 5.01
3)	L1 1016{1}			1.670	1.571	1.507	1.412	1.510	E5 7.68
4)	L1 1016{2}			4.984	4.400	4.428	4.349	4.504	E5 6.01
5)	L1 1016{3}			3.292	3.039	3.074	2.912	3.041	E5 5.33
6)	L1 1016{4}			2.001	1.878	1.864	1.806	1.868	E5 4.48
7)	L1 1016{5}			2.820	2.625	2.536	2.406	2.552	E5 7.11
8)	L7 1260{1}			6.418	5.314	5.409	5.142	5.447	E5 10.46
9)	L7 1260{2}			7.486	6.373	6.438	6.107	6.467	E5 9.35
10)	L7 1260{3}			5.791	4.895	4.786	4.544	4.899	E5 10.77
11)	L7 1260{4}			6.352	5.548	5.454	5.209	5.543	E5 8.69
12)	L7 1260{5}			1.245	1.129	1.126	1.113	1.145	E6 4.92

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 9-1260-022014C.M
 Title : 1260/1016 02/20/14 12/05/13
 Last Update : Fri Feb 21 09:11:02 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\022014A\I0220013.d
2	10	10	0	C:\msdchem\1\data\022014A\I0220014.d
3	20	20	0	C:\msdchem\1\data\022014A\I0220015.d
4	50	50	0	C:\msdchem\1\data\022014A\I0220016.d
5	100	100	0	C:\msdchem\1\data\022014A\I0220017.d
6	200	200	0	C:\msdchem\1\data\022014A\I0220018.d
7	250	250	0	C:\msdchem\1\data\022014A\I0220019.d

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Feb 21 09:09 2014	Feb 21 09:09 2014	20 Feb 2014 8:19 pm
2	10	Feb 21 09:09 2014	Feb 21 09:09 2014	20 Feb 2014 8:32 pm
3	20	Feb 21 09:11 2014	Feb 21 09:10 2014	20 Feb 2014 8:44 pm
4	50	Feb 21 09:09 2014	Feb 21 09:09 2014	20 Feb 2014 8:57 pm
5	100	Feb 21 09:09 2014	Feb 21 09:09 2014	20 Feb 2014 9:09 pm
6	200	Feb 21 09:09 2014	Feb 21 09:09 2014	20 Feb 2014 9:21 pm
7	250	Feb 21 09:09 2014	Feb 21 09:09 2014	20 Feb 2014 9:34 pm

9-1260-022014C.M Fri Feb 21 09:11:37 2014

Data Path : C:\msdchem\1\data\022014A\
 Data File : 10220017.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Feb 2014 9:09 pm
 Operator : JMB
 Sample : 1260/1016 100 Inst : ECD 9
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Feb 21 09:09:11 2014
 Quant Method : C:\msdchem\1\methods\PCR Methods\9-1260-022014C.M
 Quant Title : 1260/1016 02/20/14 12/05/13
 Qlast Update : Fri Feb 21 09:09:11 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	2.885	3.281	2278.2E6	1045.9E6	105.819	104.630
Spiked Amount	200.000		Recovery	=	52.91%	52.31%
2) S Decachlor...	6.961	7.611	1880.9E6	822.4E6	101.293	95.462
Spiked Amount	200.000		Recovery	=	50.65%	47.73%
Target Compounds						
3) L1 1016(1)	3.434	4.222	81850124	15074521	79.367	93.023
4) L1 1016(2)	3.790	4.392	94626967	44278864	100.271	94.370
5) L1 1016(3)	3.889	4.500	68791449	30737971	95.400	97.091
6) L1 1016(4)	3.937	4.586	41318475	18636202	98.523	96.081
7) L1 1016(5)	4.199	4.881	50822806	25356263	91.860	93.127
Sum 1016			337.4E6	134.1E6	465.420	473.693
Average 1016					93.084	94.739
8) L7 1260(1)	5.146	5.918	100.1E6	54087971	96.676	92.208
9) L7 1260(2)	5.367	6.073	155.2E6	64379476	94.999	92.906
10) L7 1260(3)	5.682	6.393	92165729	47858320	93.760	89.571
11) L7 1260(4)	5.879	6.588	101.2E6	54543476	94.517	91.673
12) L7 1260(5)	6.108	6.735	230.3E6	112.6E6	102.074	94.820
Sum 1260			678.9E6	333.4E6	482.025	461.177
Average 1260					96.405	92.235

(f)=RT Delta > 1/2 Window (*)=Amounts differ by > 25% (m)=manual int.

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 9-1242-010714C.M
 Title : 1242 01/07/14 08/27/13
 Last Update : Wed Jan 08 11:24:56 2014
 Response Via : Initial Calibration

Calibration Files

5 =I0107011.d 10 =I0107012.d 20 =I0107013.d
 50 =I0107014.d 100 =I0107015.d 200 =I0107016.d

	Compound	5	10	20	50	100	200	Avg	CRSD
1) S	Tetrachloro-m...	1.978	1.984	1.986	1.993	2.192	2.129	2.052	E7 4.25
2) S	Decachlorobip...	1.805	1.581	1.511	1.471	1.618	1.618	1.602	E7 6.63
3) L4	1242{1}			6.435	5.867	5.558	5.232	5.726	E5 7.96
4) L4	1242{2}			2.462	2.183	2.072	1.957	2.155	E5 8.81
5) L4	1242{3}			7.026	6.484	6.532	6.455	6.691	E5 4.14
6) L4	1242{4}			4.694	4.941	4.782	4.594	4.777	E5 2.90
7) L4	1242{5}			3.187	2.857	2.777	2.697	2.880	E5 6.47

Signal #2 Calibration Files

5 =I0107011.d 10 =I0107012.d 20 =I0107013.d
 50 =I0107014.d 100 =I0107015.d 200 =I0107016.d

	Compound	5	10	20	50	100	200	Avg	CRSD
1) S	Tetrachloro-m...	1.064	1.046	1.039	1.048	1.159	1.134	1.088	E7 4.57
2) S	Decachlorobip...	1.044	0.956	0.891	0.862	0.951	0.946	0.941	E7 6.10
3) L4	1242{1}			2.493	2.290	2.143	1.993	2.200	E5 8.94
4) L4	1242{2}			1.441	1.347	1.275	1.168	1.290	E5 8.35
5) L4	1242{3}			3.975	3.716	3.667	3.383	3.654	E5 6.07
6) L4	1242{4}			2.850	2.603	2.558	2.395	2.587	E5 6.42
7) L4	1242{5}			1.710	1.634	1.569	1.492	1.596	E5 5.10

{#} ~ Out of Range ### Number of calibration levels exceeded format ###

79

Method Path : C:\msdchem\1\methods\FCE Methods\
 Method File : 9-1242-010714C.M
 Title : 1242 01/07/14 08/27/13
 Last Update : Wed Jan 08 11:24:56 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\010714\I0107011.d
2	10	10	0	C:\msdchem\1\data\010714\I0107012.d
3	20	20	0	C:\msdchem\1\data\010714\I0107013.d
4	50	50	0	C:\msdchem\1\data\010714\I0107014.d
5	100	100	0	C:\msdchem\1\data\010714\I0107015.d
6	200	200	0	C:\msdchem\1\data\010714\I0107016.d
7	250	250	0	C:\msdchem\1\data\010714\I0107017.d

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Jan 08 11:24 2014	Jan 08 10:45 2014	7 Jan 2014 1:47 pm
2	10	Jan 08 11:24 2014	Jan 08 10:45 2014	7 Jan 2014 2:00 pm
3	20	Jan 08 11:24 2014	Jan 08 10:45 2014	7 Jan 2014 2:12 pm
4	50	Jan 08 11:24 2014	Jan 08 10:45 2014	7 Jan 2014 2:25 pm
5	100	Jan 08 11:24 2014	Jan 08 10:45 2014	7 Jan 2014 2:37 pm
6	200	Jan 08 11:24 2014	Jan 08 10:45 2014	7 Jan 2014 2:49 pm
7	250	Jan 08 11:24 2014	Jan 08 10:45 2014	7 Jan 2014 3:02 pm

9-1242-010714C.M Wed Jan 08 11:25:12 2014

80

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 9-1254-010714C.M
 Title : 1254 01/07/14 09/17/13
 Last Update : Wed Jan 08 10:46:49 2014
 Response Via : Initial Calibration

Calibration Files

5 =I0107011.d 10 =I0107012.d 20 =I0107013.d
 50 =I0107014.d 100 =I0107015.d 200 =I0107016.d

	Compound	5	10	20	50	100	200	Avg	RSD
1) S	Tetrachloro-m...	1.978	1.984	1.986	1.993	2.192	2.129	2.052	E7 4.25
2) S	Decachlorobip...	1.805	1.581	1.511	1.471	1.618	1.618	1.602	E7 6.63
3) L6	1254{1}			6.893	6.303	6.159	5.860	6.189	E5 7.36
4) L6	1254{2}			1.224	1.124	1.094	1.045	1.100	E6 7.12
5) L6	1254{3}			1.236	1.116	1.136	1.100	1.134	E6 5.30
6) L6	1254{4}			9.270	8.708	8.676	8.383	8.654	E5 4.59
7) L6	1254{5}			1.251	1.181	1.186	1.149	1.179	E6 3.96

Signal #2 Calibration Files

5 =I0107011.d 10 =I0107012.d 20 =I0107013.d
 50 =I0107014.d 100 =I0107015.d 200 =I0107016.d

	Compound	5	10	20	50	100	200	Avg	RSD
1) S	Tetrachloro-m...	1.064	1.046	1.039	1.048	1.159	1.134	1.088	E7 4.37
2) S	Decachlorobip...	1.044	0.956	0.891	0.862	0.951	0.946	0.941	E7 6.10
3) L6	1254{1}			4.592	4.105	3.974	3.728	4.006	E5 9.46
4) L6	1254{2}			5.426	4.827	4.554	4.292	4.655	E5 10.71
5) L6	1254{3}			7.720	5.993	6.799	6.456	6.849	E5 8.19
6) L6	1254{4}			5.612	4.999	4.847	4.416	4.819	E5 11.29
7) L6	1254{5}			6.465	5.859	6.886	6.334	6.318	E5 6.20

(#) = Out of Range ### Number of calibration levels exceeded format ###

Calibration Status Report ECD 9

158

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 9-1254-010714C.M
 Title : 1254 01/07/14 09/17/13
 Last Update : Wed Jan 08 10:45:49 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\010714\I0107011.d
2	10	10	0	C:\msdchem\1\data\010714\I0107012.d
3	20	20	0	C:\msdchem\1\data\010714\I0107013.d
4	50	50	0	C:\msdchem\1\data\010714\I0107014.d
5	100	100	0	C:\msdchem\1\data\010714\I0107015.d
6	200	200	0	C:\msdchem\1\data\010714\I0107016.d
7	250	250	0	C:\msdchem\1\data\010714\I0107017.d

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 1:47 pm
2	10	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 2:00 pm
3	20	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 2:12 pm
4	50	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 2:25 pm
5	100	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 2:37 pm
6	200	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 2:49 pm
7	250	Jan 08 10:45 2014	Jan 08 10:45 2014	7 Jan 2014 3:02 pm

9-1254-010714C.M Wed Jan 08 10:46:16 2014

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 9-1248-010714C.M
 Title : 1248 01/07/14 08/29/13
 Last Update : Wed Jan 08 11:15:14 2014
 Response Via : Initial Calibration

Calibration Files

5 =I0107011.d 10 =I0107012.d 20 =I0107013.d
 50 =I0107014.d 100 =I0107015.d 200 =I0107016.d

	Compound	5	10	20	50	100	200	Avg	RSO
1)	S Tetrachloro-m...	1.978	1.984	1.986	1.993	2.192	2.129	2.052 E7	4.25
2)	S Decachlorobip...	1.805	1.581	1.511	1.471	1.618	1.618	1.602 E7	6.63
3)	L5 1248{1}			4.282	3.898	3.787	4.044	3.994 E5	4.67
4)	L5 1248{2}			5.343	4.743	4.484	4.564	4.722 E5	7.68
5)	L5 1248{3}			6.751	6.095	5.892	6.170	6.184 E5	5.41
6)	L5 1248{4}			7.745	6.935	6.780	7.216	7.149 E5	5.18
7)	L5 1248{5}			6.493	5.915	5.773	6.158	6.081 E5	4.49

Signal #2 Calibration Files

5 =I0107011.d 10 =I0107012.d 20 =I0107013.d
 50 =I0107014.d 100 =I0107015.d 200 =I0107016.d

	Compound	5	10	20	50	100	200	Avg	RSO
1)	S Tetrachloro-m...	1.064	1.046	1.039	1.048	1.159	1.134	1.088 E7	4.57
2)	S Decachlorobip...	1.044	0.956	0.891	0.862	0.951	0.946	0.941 E7	6.10
3)	L5 1248{1}			2.386	2.277	2.112	2.158	2.208 E5	5.46
4)	L5 1248{2}			3.227	2.840	2.632	2.624	2.772 E5	10.02
5)	L5 1248{3}			4.079	3.542	3.340	3.391	3.528 E5	9.14
6)	L5 1248{4}			4.524	3.961	3.763	3.858	3.968 E5	8.13
7)	L5 1248{5}			4.915	4.462	4.246	4.339	4.437 E5	6.38

{#} * Out of Range ### Number of calibration levels exceeded format ###

Method Path : C:\msdchem\1\methods\PCB Methods\
 Method File : 9-1248-010714C.M
 Title : 1248 01/07/14 08/29/13
 Last Update : Wed Jan 08 11:15:14 2014
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	0	C:\msdchem\1\data\010714\I0107011.d
2	10	10	0	C:\msdchem\1\data\010714\I0107012.d
3	20	20	0	C:\msdchem\1\data\010714\I0107013.d
4	50	50	0	C:\msdchem\1\data\010714\I0107014.d
5	100	100	0	C:\msdchem\1\data\010714\I0107015.d
6	200	200	0	C:\msdchem\1\data\010714\I0107016.d
7	250	250	0	C:\msdchem\1\data\010714\I0107017.d

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Jan 08 11:15 2014	Jan 08 10:45 2014	7 Jan 2014 1:47 pm
2	10	Jan 08 11:15 2014	Jan 08 10:45 2014	7 Jan 2014 2:00 pm
3	20	Jan 08 11:15 2014	Jan 08 10:45 2014	7 Jan 2014 2:12 pm
4	50	Jan 08 11:15 2014	Jan 08 10:45 2014	7 Jan 2014 2:25 pm
5	100	Jan 08 11:15 2014	Jan 08 10:45 2014	7 Jan 2014 2:37 pm
6	200	Jan 08 11:15 2014	Jan 08 10:45 2014	7 Jan 2014 2:49 pm
7	250	Jan 08 11:15 2014	Jan 08 10:45 2014	7 Jan 2014 3:02 pm

9-1248-010714C.M Wed Jan 08 11:15:36 2014



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-8405 * TEL 413/525-2332

7 - FORM VII CONTINUING CALIBRATION VERIFICATION SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14C0173
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD 9	Calibration:	1400043
Lab File ID:	I0307004.d	Calibration Date:	02/20/14 00:00
Sequence:	S005602	Injection Date:	03/07/14
Lab Sample ID:	S005602-CCV1	Injection Time:	09:00

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	99.9				-0.1	15
Aroclor-1016 [2C]	A	100	104				4.2	15
Aroclor-1260	A	100	103				2.7	15
Aroclor-1260 [2C]	A	100	95.6				-4.4	15
Decachlorobiphenyl	A	100	105	1.884475E+07	1.9842E+07		5.3	
Decachlorobiphenyl [2C]	A	100	104	8522895	8877000		4.2	
Tetrachloro-m-xylene	A	100	107	2.215256E+07	2.3813E+07		7.5	
Tetrachloro-m-xylene [2C]	A	100	105	1.02368E+07	1.0782E+07		5.3	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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

202

85

7 - FORM VII
CONTINUING CALIBRATION VERIFICATION
SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14C0173
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD 9	Calibration:	1400043
Lab File ID:	10307005.d	Calibration Date:	02/20/14 00:00
Sequence:	S005602	Injection Date:	03/07/14
Lab Sample ID:	SD05602-CCV2	Injection Time:	09:12

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254	A	100	112				12.2	15
Aroclor-1254 [2C]	A	100	102				2.3	15
Decachlorobiphenyl	A	100	109	1.884475E+07	2.0502E+07		8.8	
Decachlorobiphenyl [2C]	A	100	105	8522995	8981000		5.5	
Tetrachloro-m-xylene	A	100	106	2.215256E+07	2.3393E+07		5.6	
Tetrachloro-m-xylene [2C]	A	100	104	1.02368E+07	1.062E+07		3.7	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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

7 - FORM VII
CONTINUING CALIBRATION VERIFICATION
SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14C0173
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD 9	Calibration:	1400043
Lab File ID:	I0307006.d	Calibration Date:	02/20/14 00:00
Sequence:	S005602	Injection Date:	03/07/14
Lab Sample ID:	S005602-CCV3	Injection Time:	09:25

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1248	A	100	112				12.0	15
Aroclor-1248 [2C]	A	100	100				0.06	15
Decachlorobiphenyl	A	100	110	1.884475E+07	2.069E+07		9.8	
Decachlorobiphenyl [2C]	A	100	107	8522995	9084000		6.6	
Tetrachloro-m-xylene	A	100	110	2.215256E+07	2.4287E+07		9.6	
Tetrachloro-m-xylene [2C]	A	100	108	1.02368E+07	1.1063E+07		8.1	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14CD173
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD 9	Calibration:	1400043
Lab File ID	I0307045.d	Calibration Date:	02/20/14 00:00
Sequence:	S005602	Injection Date:	03/07/14
Lab Sample ID:	S005602-CCV4	Injection Time:	20:55

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	108				8.3	15
Aroclor-1016 [2C]	A	100	109				8.9	15
Aroclor-1260	A	100	108				8.0	15
Aroclor-1260 [2C]	A	100	98.3				-1.7	15
Decachlorobiphenyl	A	100	114	1.884475E+07	2.1549E+07		14.4	
Decachlorobiphenyl [2C]	A	100	109	8522995	9301000		9.1	
Tetrachloro-m-xylene	A	100	113	2.215256E+07	2.5099E+07		13.3	
Tetrachloro-m-xylene [2C]	A	100	111	1.02368E+07	1.1321E+07		10.6	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits



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

211

88

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory: Con-Test Analytical Laboratory Work Order: 14C0173
Client: WSP Project: 5140 Site - Yorkville, NY-PCB
Instrument ID: ECD 9 Calibration: 1400043
Lab File ID: 10307062.d Calibration Date: 02/20/14 00:00
Sequence: S005602 Injection Date: 03/08/14
Lab Sample ID: S005602-CCV5 Injection Time: 00:26

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1015	A	50.0	54.0				8.1	15
Aroclor-1015 [2C]	A	50.0	54.6				9.2	15
Aroclor-1260	A	50.0	54.6				9.3	15
Aroclor-1260 [2C]	A	50.0	51.7				3.4	15
Decachlorobiphenyl	A	50.0	55.9	1.884475E+07	2.1074E+07		11.8	
Decachlorobiphenyl [2C]	A	50.0	53.5	8522995	9116000		6.9	
Tetrachloro-m-xylene	A	50.0	55.2	2.215256E+07	2.4474E+07		10.5	
Tetrachloro-m-xylene [2C]	A	50.0	54.7	1.02368E+07	1.1198E+07		9.4	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data Path : C:\msdchem\1\data\030714\
 Data File : 10307062.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 8 Mar 2014 12:26 am
 Operator : JMB
 Sample : 1260/1016 50 Inst : ECD 9
 Misc :
 ALS Vial : 62 Sample Multiplier: 1

Integration File signal 1: F-1260.E
 Integration File signal 2: B-1260.E
 Quant Time: Mar 08 06:42:07 2014
 Quant Method : C:\msdchem\1\methods\PCB Methods\9-1260-022014.C.M
 Quant Title : 1260/1016 02/20/14 12/05/13
 QLast Update : Fri Feb 21 09:11:02 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachloro...	2.880	3.278	1223.7E6	559.956	53.243	54.697
Spiked Amount	200.000		Recovery	=	27.620	27.35
2) S Decachloro...	6.959	7.607	1053.7E6	455.8E6	53.915	53.472
Spiked Amount	200.000		Recovery	=	27.96	26.74
Target Compounds						
3) L1 1016(1)	3.428	4.217	41964340	8640796	52.483	57.231
4) L1 1016(2)	3.784	4.389	49965235	27441141	52.994	60.932
5) L1 1016(3)	3.884	4.436	37185214	15042421	54.097	49.472
6) L1 1016(4)	3.931	4.582	23052056	9313120	56.490	49.809
7) L1 1016(5)	4.193	4.876	28105776	14136055	54.095	53.398
Sum 1016			180.3E6	74573534	270.158	272.903
Average 1016					54.032	54.581
8) L7 1260(1)	5.140	5.914	57919596	26675725	57.424	48.970
9) L7 1260(2)	5.361	6.069	77645094	33904671	49.247	52.425
10) L7 1260(3)	5.677	6.389	52127706	26372000	55.460	53.836
11) L7 1260(4)	5.873	6.585	53683171	23896275	51.854	52.135
12) L7 1260(5)	6.108	6.733	136.2E6	58545690	59.256	51.138
Sum 1260			377.7E6	174.4E6	273.242	258.504
Average 1260					54.648	51.701

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual inc.



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

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Con-Test Analytical Laboratory	Work Order:	14C0173
Client:	WSP	Project:	5140 Site - Yorkville, NY-PCB
Instrument ID:	ECD 9	Calibration:	1400043
Lab File ID:	I0307076.d	Calibration Date:	02/20/14 00:00
Sequence:	S005602	Injection Date:	03/08/14
Lab Sample ID:	S005602-CCV6	Injection Time:	03:19

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	107				6.5	15
Aroclor-1016 [2C]	A	100	110				9.7	15
Aroclor-1260	A	100	109				8.8	15
Aroclor-1260 [2C]	A	100	103				2.5	15
Decachlorobiphenyl	A	100	115	1.884475E+07	2.1691E+07		15.1	
Decachlorobiphenyl [2C]	A	100	109	8522995	9297000		9.1	
Tetrachloro-m-xylene	A	100	113	2.215256E+07	2.5026E+07		13.0	
Tetrachloro-m-xylene [2C]	A	100	110	1.02368E+07	1.1268E+07		10.1	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Appendix C – Non-Hazardous Waste Shipping Documents

TICKET # 1972328

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5684 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID **1121.1**

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE 02/17/2014

TIME IN: 9 08 am

TIME OUT: 9 23 am

CSRLF Contaminated Soil to R 12 23 tn \$25 00tn

Gross **51200** Tare: **26740** Net **24460**

Scale 5 Scale 5 **12.23 Tn**

Route Truck

Date Time

TICKET AMOUNT **\$ 305.75**

Dan Cas

CS/0214-02 T # 131

WEIGHTMASTER PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No		2. Page 1 of	
3. Generator's Name and Mailing Address							
4. Generator's Phone ()							
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID			
				B. Transporter 1 Phone			
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No Type			
a.						12.23	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations							
Printed/Typed Name				Signature		Date	
						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name						Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name						Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature		Date	
						Month Day Year	

TICKET # 1972419

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5684 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID **1121.4**

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE: 02/17/2014

TIME IN: 11:42 am

TIME OUT: 12:01 pm

CSRLF Contaminated Soil to R 31 26th \$25 00th

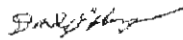
Gross: **107080** Tare **44560** Net **62520**

Scale 5 Scale 5 **31.26 Tn**

Route Truck

Date Time

TICKET AMOUNT **\$ 781.50**



CS/0214-02 T # 144

WEIGHTMASTER PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of	
3. Generator's Name and Mailing Address							
4. Generator's Phone ()							
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No. Type		14. Unit Wt./Vol.	
a.							
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
As Above						Date	
Printed/Typed Name				Signature		Month Day Year	
						6 11 14	
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Month Day Year	
						6 12 14	
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19							
Printed/Typed Name						Date	
						Month Day Year	
						6 12 14	

TICKET # 1972428

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID **1121.1**

TRAILER #

Order # **2014** 2014 CONTRACT PRICING

DATE 02/17/2014

TIME IN 11:52 am

TIME OUT 12:12 pm

CSRLF Contaminated Soil to R 20.58tn \$25.00tn

Gross **67720** Tare. **26560** Net **41160**

Scale 5 Scale 5 **20.58 Tn**

Route

Truck

Date

Time

TICKET AMOUNT **\$ 514.50**

Dan Carter

CS/0214-02 T # 131

WEIGHTMASTER PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elita (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No	2. Page 1 of
3. Generator's Name and Mailing Address					
4. Generator's Phone ()					
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID	
				B. Transporter 1 Phone	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone	
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID	
				F. Facility's Phone	
11. WASTE DESCRIPTION				Containers	
				No.	Type
a.					
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name				Signature	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name				Signature	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name				Signature	
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of the waste materials covered by this manifest, except as noted in item 19					
Printed/Typed Name				Signature	

TRK 192

TICKET # 1972439

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID 1121.2

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE: 02/17/2014

TIME IN: 12:14 pm TIME OUT: 12:31 pm

CSRLF Contaminated Soil to R 34.85tn \$25.00tn

Gross: 116140 Tare 46440 Net 69700

Scale 5 Scale 5 34.85 Tn

Route Truck

Date Time

TICKET AMOUNT \$ 871.25



CS/0214-02 T # 192

WEIGHTMASTER PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of	
3. Generator's Name and Mailing Address							
4. Generator's Phone ()							
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID		B. Transporter 1 Phone	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		D. Transporter 2 Phone	
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID		F. Facility's Phone	
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No Type		14. Unit Wt./Vol	
a.							
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations. As a generator, I am not responsible for the proper handling of the waste materials described on this manifest.							
Printed/Typed Name				Signature		Date	
						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name				Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator. Certification of receipt of the waste materials covered by this manifest, except as noted in item 19							
Printed/Typed Name				Signature		Date	
						Month Day Year	

TICKET # 1972497

Onondaga-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID 11211

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE 02/17/2014

TIME IN 2:09 pm

TIME OUT 2:28 pm

CSRLF Contaminated Soil to R 25.87tn \$25.00tn

Gross 78320 Tare 26580 Net 51740

Scale 5 Scale 5 25.87 Tn

Route Truck

Date Time

TICKET AMOUNT \$ 646.75

D. D. Custer

CS/0214-02 T # 131.

WEIGHTMASTER: PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2 Page 1 of	
3. Generator's Name and Mailing Address				4. Generator's Phone ()			
5. Transporter 1 Company Name				6. US EPA ID Number		A. State Transporter's ID	
7. Transporter 2 Company Name				8. US EPA ID Number		B. Transporter 1 Phone	
9. Designated Facility Name and Site Address				10. US EPA ID Number		C. State Transporter's ID	
						D. Transporter 2 Phone	
						E. State Facility's ID	
						F. Facility's Phone	
11. WASTE DESCRIPTION				Containers		13 Total Quantity	
				No. Type		14 Unit Wt./Vol.	
a.							
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name						Signature	
						Date	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Signature	
						Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Signature	
						Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name						Signature	
						Date	
						Month Day Year	

TICKET # 1972503

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID **11213**

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE: 02/17/2014

TIME IN 2:23 pm

TIME OUT: 2:59 pm

CSRLF Contaminated Soil to R 34 30tn \$25.00tn

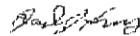
Gross: **112620** Tare: **44020** Net **68600**

Scale 5 Scale 5 **34.30 Tn**

Route Truck

Date Time

TICKET AMOUNT **\$ 857.50**



CS/0214-02 T # 144

WEIGHTMASTER PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of	
3. Generator's Name and Mailing Address							
4. Generator's Phone ()							
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID			
				B. Transporter 1 Phone			
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No Type			
a.							
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name				Signature		Date	
						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name				Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature		Date	
						Month Day Year	

TRK 192

TICKET # 1972511

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID 11214

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE: 02/17/2014

TIME IN: 2:35 pm

TIME OUT: 3:00 pm

CSRLF Contaminated Soil to R 32.46tn \$25.00tn

Gross: 110800 Tare: 45880 Net: 64920

Scale 5 Scale 5 32.46 Tn

Route Truck

Date Time

TICKET AMOUNT \$ 811.60

John East

CS/0214-02 T # 192.

WEIGHTMASTER, PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

TRK 192

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of	
3. Generator's Name and Mailing Address							
4. Generator's Phone () - -							
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No	Type		
a.							14. Unit Wt./Vol
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name						Date	
Signature						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator. Certification of receipt of the waste materials covered by this manifest, except as noted in item 19							
Printed/Typed Name						Date	
Signature						Month Day Year	

TICKET # 1972638

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5884 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID **1121.1**

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE 02/18/2014

TIME IN: 8.15 am

TIME OUT: 8.40 am

CSRLF Contaminated Soil to R 29.41tn \$25.00tn

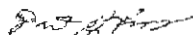
Gross: **103440** Tare: **44620** Net: **58820**

Scale 5 Scale 5 **29.41 Tn**

Route Truck

Date Time

TICKET AMOUNT **\$ 735.25**



CS/0214-02 T # 144

WEIGHTMASTER PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.	2. Page 1 of
3. Generator's Name and Mailing Address					
4. Generator's Phone ()					
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone	
9. Designated Facility Name and Site Address		10. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone	
11. WASTE DESCRIPTION			Containers		13. Total Quantity
			No.	Type	
a.					14. Unit Wt./Vol
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name				Signature	
				Date	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name				Signature	
				Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name				Signature	
				Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name				Signature	
				Date	
				Month Day Year	

TRK 192
TICKET # 1972648

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13029-8681

Truck ID 1121.2

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE 02/18/2014

TIME IN 8:27 am

TIME OUT 8:43 am

CSRLF Contaminated Soil to R 30.63tn \$25.00tn

Gross 107440 Tare 46180 Net 61260

Scale 5 Scale 5 30.63 Tn

Route Truck

Date Time

TICKET AMOUNT \$ 766.75


CS/0214-02 T # 192

WEIGHTMASTER PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

TRIC 192

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No		2. Page 1 of	
3. Generator's Name and Mailing Address							
4. Generator's Phone ()							
5. Transporter 1 Company Name				6. US EPA ID Number		A. State Transporter's ID	
						B. Transporter 1 Phone	
7. Transporter 2 Company Name				8. US EPA ID Number		C. State Transporter's ID	
						D. Transporter 2 Phone	
9. Designated Facility Name and Site Address				10. US EPA ID Number		E. State Facility's ID	
						F. Facility's Phone	
11. WASTE DESCRIPTION						Containers	
						No	Type
a.							
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above						H. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name						Signature	
						Date	
						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name						Signature	
						Date	
						Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name						Signature	
						Date	
						Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator Certification of receipt of the waste materials covered by this manifest, except as noted in item 19							
Printed/Typed Name						Signature	
						Date	
						Month Day Year	

TICKET # 1972731

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID **1121.2**

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE 02/18/2014

TIME IN 11:15 am

TIME OUT 11:41 am

CSRLF Contaminated Soil to R 28.53tn \$25.00tn

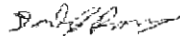
Gross. **101700** Tare. **44640** Net **57060**

Scale 5 Scale 5 **28.53 Tn**

Route Truck

Date Time

TICKET AMOUNT **\$ 713.25**



CS/0214-02 T # 144

WEIGHTMASTER, PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No		Manifest Document No		2. Page 1 of	
3. Generator's Name and Mailing Address State Commerce Drive 840 Commerce Drive Millsboro DE 19966				Same			
4. Generator's Phone ()							
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		C. State Transporter's ID			
Onondaga Hazardous Waste Mgmt. Facility 7014 State Rd. 1st Orangethorpe NY 13050 197377				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone		315-462-5800	
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No. Type			
a. Non-Regulated Material				1 100		28.33	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
28.33 28.33 100				A01			
15. Special Handling Instructions and Additional Information							
Emergency Contact: Morgan Environmental Services Inc. 410-274-0810							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name						Date	
Signature						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name						Date	
Signature						Month Day Year	

NON-HAZARDOUS WASTE

TICKET # 1972039

Oneida Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica New York 13502
(315)733-1224

140065

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID 11215

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE 02/19/2014

TIME IN 8:31am

TIME OUT 8:45am

CSRLF Contaminated Soil to R 20.28 tn \$25.00/tn

Gross 71220 Tare 30860 Net 40560

Scale 5 Scale 5 20.28 Tn

Route Truck

Date Time

TICKET AMOUNT \$ 507.00

Raymond

CS/0214-02 T # 600

VEIGHTMASTER, PATTY

TKS

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No		Manifest Document No.		2. Page 1 of	
3. Generator's Name and Mailing Address							
4. Generator's Phone							
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID		B. Transporter 1 Phone	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		D. Transporter 2 Phone	
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID		F. Facility's Phone	
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No Type			
a.							
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name				Signature		Date	
						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name				Signature		Month Day Year	
						2/19/14	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature		Date	
						Month Day Year	

TRK 192

TICKET # 1973071

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(518) 733-1224

CUSTOMER: 1
PARAGON ENVIRONMENTAL
5864 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID 1121.2

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE 02/19/2014

TIME IN: 11:41 am

TIME OUT: 12:03 pm

CSRLF Contaminated Soil to R 33 15 tn \$25.00/tn

Gross 112100 Tare: 45800 Net 66300

Scale 5 Scale 5 33.15 Tn

Route Truck

Date Time

TICKET AMOUNT \$ 828.75


CS/0214-02 T # 192

WEIGHTMASTER: PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

TRK 192

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of	
3. Generator's Name and Mailing Address							
4. Generator's Phone ()							
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No. Type			
a.							
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations							
Printed/Typed Name				Signature		Date	
						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name				Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19							
Printed/Typed Name				Signature		Date	
						Month Day Year	

TRK 192

TICKET # 1973211

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID 1121.1

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE 02/19/2014

TIME IN 2:56 pm

TIME OUT 3:08 pm

CSRLF Contaminated Soil to R 30.43tn \$25.00tn

Gross 106020 Tare: 45160 Net 60860

Scale 5 Scale 5 30.43 Tn

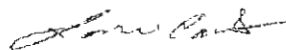
Route

Truck

Date

Time

TICKET AMOUNT \$ 760.75



CS/0214-02 T # 192.

WEIGHTMASTER PAITY

Thanks

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. TKK19	2. Page 1 of 1
3. Generator's Name and Mailing Address					
4. Generator's Phone ()					
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID	
				B. Transporter 1 Phone	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone	
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID	
				F. Facility's Phone	
11. WASTE DESCRIPTION				Containers	13. Total Quantity
				No.	Type
a.					
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name				Signature	
				Date	
				Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name				Signature	
				Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name				Signature	
				Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name				Signature	
				Date	
				Month Day Year	

DB 144
141065
TICKET # 1973303

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID 1121.1

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE: 02/20/2014

TIME IN: 8:24 am

TIME OUT: 8:57 am

CSRLF Contaminated Soil to R 33.49tn \$25.00tn

Gross. 109780 Tare: 42800 Net 66980

Scale 5 Scale 5 33.49 Tn

Route Truck

Date Time

TICKET AMOUNT \$ 837.25

D. D. [Signature]

CS/0214-02 T # 144

WEIGHTMASTER: PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.	2. Page 1 of
3. Generator's Name and Mailing Address					
4. Generator's Phone ()					
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID	
				B. Transporter 1 Phone	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone	
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID	
				F. Facility's Phone	
11. WASTE DESCRIPTION				Containers	13. Total Quantity
				No.	Type
a.					3247
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name				Signature	
				Date	
				Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name				Signature	
				Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name				Signature	
				Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator. Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name				Signature	
				Date	
				Month Day Year	

140065
DB/44
TICKET # 1973537

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID 1121.1

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE: 02/20/2014

TIME IN 1:57 pm TIME OUT 2:18 pm

CSRLF Contaminated Soil to IR 26.56tn \$25.00tn

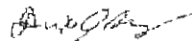
Gross 96400 Tare: 43280 Net 53120

Scale 5 Scale 5 26.56 Tn

Route Truck

Date Time

TICKET AMOUNT \$ 664.00



CS/0214-02. T # 144

WEIGHTMASTER PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of	
3. Generator's Name and Mailing Address							
4. Generator's Phone ()							
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID			
				B. Transporter 1 Phone			
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No. Type			
a.							
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name						Date	
Signature						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator. Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name						Date	
Signature						Month Day Year	

140065 DB
744

TIC T # 1973556

CS 02-10214-02 T # 144
CS 02-10214-02 T # 144
WPTW
Jisco, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13028-8861

Truck ID 1121.1

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE 02/21/2014

TIME IN 7:44 am

TIME OUT 8:03 am

CSRLF Contaminated Soil to R 33.70tn \$25.00tn

Gross: 110940 Tare: 43540 Net 67400

Scale 5 Scale 5 33.70 Tn

Route Truck

Date Time

TICKET AMOUNT \$ 842.50



.CS/0214-02 T # 144

WEIGHTMASTER PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of	
3. Generator's Name and Mailing Address							
4. Generator's Phone ()							
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No. Type			
a.							
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name						Date	
Signature						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19							
Printed/Typed Name						Date	
Signature						Month Day Year	

TRIC 192
TICKET # 1973661

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID 1121.2

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE 02/21/2014

TIME IN 7:48 am

TIME OUT: 8 10 am

CSRLF Contaminated Soil to R 27 24 tn \$25.00tn

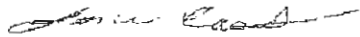
Gross. 100520 Tare 46040 Net 54480

Scale 5 Scale 5 27.24 Tn

Route Truck

Date Time

TICKET AMOUNT \$ 681.00


CS/0214-02 T # 192

WEIGHTMASTER, PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

TRK 192

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No		2 Page 1 of	
3 Generator's Name and Mailing Address							
4 Generator's Phone ()							
5 Transporter 1 Company Name		6 US EPA ID Number		A. State Transporter's ID		404-711	
				B. Transporter 1 Phone			
7. Transporter 2 Company Name		8 US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
9 Designated Facility Name and Site Address		10 US EPA ID Number		E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No. Type			
a.							
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15 Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations							
Printed/Typed Name						Date	
Signature						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19							
Printed/Typed Name						Date	
Signature						Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

TRK 192

TICKET # 1974188

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13028-8661

Truck ID **1121.1**

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE 02/24/2014

TIME IN: 8 12 am

TIME OUT: 8 38 am

CSRLF Contaminated Soil to R 30 18tn \$25 00tn

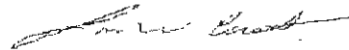
Gross. **106920** Tare. **46560** Net **60360**

Scale 5 Scale 5 **30.18 Tn**

Route Truck

Date Time

TICKET AMOUNT **\$ 754.60**



CS/0214-02 T # 192

WEIGHTMASTER, PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

7/28/92 192

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2 Page 1 of	
3. Generator's Name and Mailing Address							
4. Generator's Phone ()							
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID			
				B. Transporter 1 Phone			
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No. Type			
a.							
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations							
Printed/Typed Name						Date	
Signature						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name				Signature			
				Month Day Year			
18. Transporter 2 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name				Signature			
				Month Day Year			
19. Discrepancy Indication Space							
20. Facility Owner or Operator. Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name						Date	
Signature						Month Day Year	

TRK 192

TICKET # 1974358

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID **1121.1**

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE: 02/24/2014

TIME IN: 12 11pm

TIME OUT: 12 31pm

CSRLF Contaminated Soil to R 25 07tn \$25 00tn

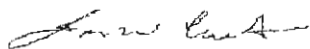
Gross **96560** Tare **46420** Net **50140**

Scale 5 Scale 5 **25.07 Tn**

Route Truck

Date Time

TICKET AMOUNT **\$ 626.75**



CS/0214-02 T # 192.

WEIGHTMASTER PATTY

Thanks

TRIC 192

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of		
3. Generator's Name and Mailing Address								
4. Generator's Phone ()								
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID				
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone				
9. Designated Facility Name and Site Address		10. US EPA ID Number		C. State Transporter's ID				
				D. Transporter 2 Phone				
				E. State Facility's ID				
				F. Facility's Phone				
11. WASTE DESCRIPTION			Containers		13. Total Quantity		14. Unit Wt./Vol.	
			No. Type					
a.								
b.								
c.								
d.								
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information								
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.								
Printed/Typed Name						Date		
Signature						Month Day Year		
17. Transporter 1 Acknowledgement of Receipt of Materials						Date		
Printed/Typed Name						Month Day Year		
Signature						Month Day Year		
18. Transporter 2 Acknowledgement of Receipt of Materials						Date		
Printed/Typed Name						Month Day Year		
Signature						Month Day Year		
19. Discrepancy Indication Space								
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.								
Printed/Typed Name						Date		
Signature						Month Day Year		

TRK 192

TICKET #1974591

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID 11214

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE 02/25/2014

TIME IN 9:04 am

TIME OUT 9:16 am

CSRLF Contaminated Soil to R 54.17 tn \$25.00tn

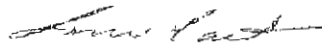
Gross 115660 Tare 47320 Net 68340

Scale 5 Scale 5 34.17 Tn

Route Truck

Date Time

TICKET AMOUNT \$ 854.25



.CS/0214-02 T # 192

WEIGHTMASTER: PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1 Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of 1	
3. Generator's Name and Mailing Address							
4. Generator's Phone ()							
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No. Type			
a.							
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations							
Printed/Typed Name						Date	
Signature						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name				Signature			
				Month Day Year			
18. Transporter 2 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name				Signature			
				Month Day Year			
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name						Date	
Signature						Month Day Year	



TRK 600

TICKET # 1977206

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5864 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID 1121.1

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE: 03/06/2014

TIME IN 12:22 pm

TIME OUT: 12:39 pm

CSRLF Contaminated Soil to R 21.04tn \$25.00tn

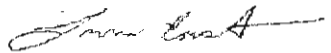
Gross. 73300 Tare. 31220 Net. 42080

Scale 5 Scale 5 21.04 Tn

Route Truck

Date Time

TICKET AMOUNT \$ 526.00



CS/0214-02 T # 600.

WEIGHTMASTER, PATTY

Thanks

TRC 600

TICKET # 1977300

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID **1121.1**

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE 03/06/2014

TIME IN 3:05 pm

TIME OUT 3:16 pm

CSRLF Contaminated Soil to R 17.38 tn \$25.00 tn

Gross **65700** Tare **30940** Net **34760**

Scale 5 Scale 5 **17.38 Tn**

Route Truck

Date Time

TICKET AMOUNT **\$ 434.50**

Steve East

CS/0214-02 T # 600

WEIGHTMASTER, PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

TRK 600

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of	
3. Generator's Name and Mailing Address							
4. Generator's Phone ()							
5. Transporter 1 Company Name				6. US EPA ID Number		A. State Transporter's ID	
7. Transporter 2 Company Name				8. US EPA ID Number		B. Transporter 1 Phone	
9. Designated Facility Name and Site Address				10. US EPA ID Number		C. State Transporter's ID	
						D. Transporter 2 Phone	
						E. State Facility's ID	
						F. Facility's Phone	
11. WASTE DESCRIPTION						Containers	
						No	Type
a.						1	171
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above						H. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name						Date	
Signature						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name						Date	
Signature						Month Day Year	

TICKET # 1973139

Orangetown-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID **1121.1**

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE 02/19/2014

TIME IN: 1:14 pm

TIME OUT: 1:14 pm

DHSW	Direct Haul Special Wa	31.54 tn	\$55.00/tn

Gross	110180	Tare	47100	Net:	63080

MAN WT	MAN WT	31.54 Tn

Route	Truck

Date	Time

TICKET AMOUNT	\$ 1734.70

ADC/0214-03.T # 192 CHANGE TO (DHSW)
PER JOSH

WEIGHTMASTER PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of	
3. Generator's Name and Mailing Address							
4. Generator's Phone ()							
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID			
				B. Transporter 1 Phone			
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	14. Unit Wt./Vol.
				No.	Type		
a.							
b.						31.54	
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations							
Printed/Typed Name						Date	
Signature						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name						Date	
Signature						Month Day Year	

TICKET # 1973117

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13028-8661

Truck ID **1121.2**

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE: 02/19/2014

TIME IN: 12:58 pm

TIME OUT: 1:00 pm

DHSW Direct Haul Special Wa 35.95 tn \$55.00 tn

Gross: **116420** Tare: **44520** Net: **71900**

MAN WT MAN WT **35.95 Tn**

Route Truck

Date Time

TICKET AMOUNT **\$ 1977.25**

ADC/0214-03 # 144 CHANGE TO (DHSW) PER
JOSH

WEIGHTMASTER PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12-pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of	
3. Generator's Name and Mailing Address							
4. Generator's Phone ()							
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID			
				B. Transporter 1 Phone			
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No. Type			
a.							
b.						33.15	
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
AIR - 02111503							
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name				Signature		Date	
						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature		Date	
						Month Day Year	

TICKET # 1973124

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13029-8861

Truck ID **11213**

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE: 02/19/2014

TIME IN: 1 03 pm

TIME OUT: 1 06 pm

DHSW Direct Haul Special Wa 19.66tn \$55.00tn

Gross **66040** Tare **26720** Net **39320**

MAN WT MAN WT **19.66 Tn**

Route Truck

Date Time

TICKET AMOUNT **\$ 1081.30**

ADC/0214-03 T # 131CHANGED TO (DHSW)
PER JOSH.

WEIGHTMASTER PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of	
3. Generator's Name and Mailing Address							
4. Generator's Phone ()							
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No. Type			
a.							
b.						1966	
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name						Date	
Signature						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator. Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name						Date	
Signature						Month Day Year	

TICKET # 1973144

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID **11214**

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE 02/19/2014

TIME IN: 1.16 pm TIME OUT: 1.17 pm

DHSW	Direct Haul Special Wa	20.89tn	\$55.00tn

Gross	73540	Tare	31760	Net	41780

MAN WT		MAN WT	20.89	Tn	

Route Truck

Date Time

TICKET AMOUNT **\$ 1148.95**

ADC/0214-03 T # 616 CHANGED TO (DHSW)
PER JOSH .

WEIGHTMASTER PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of	
3. Generator's Name and Mailing Address							
4. Generator's Phone ()							
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID			
				B. Transporter 1 Phone			
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No. Type			
a.							
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations							
Printed/Typed Name				Signature		Date	
						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name				Signature		Month Day Year	
						Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name				Signature		Month Day Year	
						Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature		Date	
						Month Day Year	

144 PB
140065
TICKET # 1973070

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID 1121.1

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE: 02/19/2014

TIME IN 11:39 am

TIME OUT 12:10 pm

DHSW Direct Haul Special Wa 19.67 tn \$55.00tn

Gross 82800 Tare 43460 Net 39340

Scale 5 Scale 5 19.67 Tn

Route Truck

Date Time

TICKET AMOUNT \$ 1081.85

Paul P. [Signature]

ADC/0214-03 T # 144

WEIGHTMASTER PAT

Thanks

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of	
3. Generator's Name and Mailing Address							
4. Generator's Phone ()							
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID			
				B. Transporter 1 Phone			
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No Type			
a.							
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name				Signature		Date	
						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name				Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator. Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature		Date	
						Month Day Year	

7RK192
TICKET # 1974690

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5864 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID 1121.1

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE: 02/25/2014

TIME IN 12 10 pm TIME OUT 12 23 pm

CSRLF Contaminated Soil to R 25 86tn \$25.00tn

Gross. 99120 Tare 47400 Net 51720

Scale 5 Scale 5 25.86 Tn

Route Truck

Date Time

TICKET AMOUNT \$ 646.50



CS/0214-02 T # 192.

WEIGHTMASTER: PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

7RK 172

Please print or type. (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No		Manifest Document No.		2. Page 1 of	
3. Generator's Name and Mailing Address							
4. Generator's Phone ()							
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No. Type		14. Unit Wt./Vol.	
a.							
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name						Date	
Signature						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator Certification of receipt of the waste materials covered by this manifest, except as noted in item 19							
Printed/Typed Name						Date	
Signature						Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

140065 DB
140065
142
TICKET # 1975426

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID 1121.1

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE: 02/27/2014

TIME IN: 12:59 pm

TIME OUT: 1:18 pm

RLFCOVERCOVER MATERIAL TC 31.31tn \$26.00tn

Gross 109180 Tare 46560 Net 62620

Scale 5 Scale 5 31.31 Tn

Route Truck

Date Time

TICKET AMOUNT \$ 782.75

Barb King

.ADC/0214-02 T # 192

WEIGHTMASTER PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No		2. Page 1 of	
3. Generator's Name and Mailing Address							
4. Generator's Phone ()							
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No. Type		14. Unit Wt./Vol.	
a.							
b.						31.31	
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name						Date	
Signature						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature							
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature							
19. Discrepancy Indication Space							
20. Facility Owner or Operator Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name						Date	
Signature						Month Day Year	

142065 DB
192
TICKET # 1975002

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315) 733-1224

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID 1121.2

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE: 02/26/2014

TIME IN: 10:47 am

TIME OUT: 10:48 am

RLFCOVERCOVER MATERIAL TC 25.87tn \$25.00tn

Gross 99800 Tare 48060 Net 51740

MAN WT MAN WT 25.87 Tn

Route Truck

Date Time

TICKET AMOUNT \$ 646.75

ADC/0214-03 # 192 DAVID REPLACES t
1974950.

WEIGHTMASTER PATTY

Thanks

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No		Manifest Document No.		2. Page 1 of	
3. Generator's Name and Mailing Address							
4. Generator's Phone ()							
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID			
				B. Transporter 1 Phone			
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No Type			
a.							
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name						Date	
Signature						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name						Date	
Signature						Month Day Year	

TICKET # 1973012

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

140065

CUSTOMER # 1121
PARAGON ENVIRONMENTAL
5664 MUD MILL ROAD
BREWERTON, NY 13029-8661

Truck ID 11212

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE 02/19/2014

TIME IN 10:11 am

TIME OUT 10:22 am

CD CONSTRUCT & DEMO 6.41tn \$58.00tn

Gross 41500 Tare 30680 Net 10820

Scale 1 Scale 1 5.41 Tn

Route Truck

Date Time

TICKET AMOUNT \$ 313.78

Ben M. ...

5140 commercial dr

WEIGHTMASTER GMJ

Thanks

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No 14-065		2. Page 1 of 1	
3. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DRIVE 14000							
4. Generator's Phone (315) 595-4500 14000 NY 13145							
5. Transporter 1 Company Name PARAGON ENV. PROTECT.		6. US EPA ID Number 1N42000129237		A. State Transporter's ID 70-916		B. Transporter 1 Phone 315-699-0840	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		D. Transporter 2 Phone	
9. Designated Facility Name and Site Address ONCEIDA HONG KONG SOLID WASTE 2044 STATE ROUTE 294 14000 NY 13309		10. US EPA ID Number		E. State Facility's ID		F. Facility's Phone	
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No	Type		
a. Non Regulated C&D				1	DT	5.41	P
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
Wood, Plastic, Metal							
15. Special Handling Instructions and Additional Information							
EMERGENCY CONTACT: PARAGON ENV. PROTECT. 315-699-0840							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
As Agent for 5140 Commercial Drive LLC				Date			
Printed/Typed Name K. D. Sullivan		Signature [Signature]		Month 2		Day Year 17 14	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name Burrell Reynolds		Signature [Signature]		Month 2		Day Year 19 14	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name		Signature		Month		Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator Certification of receipt of the waste materials covered by this manifest, except as noted in item 19							
E/S/OHSWA				Date			
Printed/Typed Name Chris S. Lott / OP Asst		Signature [Signature]		Month 2		Day Year 17 14	

Appendix D – Hazardous Waste Shipping Documents

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD980587969	2. Page 1 of 1	3. Emergency Response Phone (315) 374-8494	4. Manifest Tracking Number U02233540 GBF	
5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVIA NY 13036			Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13496			
Generator's Phone: (315) 454-5535						
6. Transporter 1 Company Name PAGE ETC Inc.			U.S. EPA ID Number NYD986969947			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107			U.S. EPA ID Number NYD049936679			
Facility's Phone: (716) 286-1550						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9. III NY304848	001	DT	EST. 27272	K	B007
14. Special Handling Instructions and Additional Information 1. NY304848 PCB SOIL > 50PPM PCB: OSD 2/21/14 ERG #171 Recd 30518K 81663523 SR # 1021708-1 WEIGHT IN SECTION 11 IS ESTIMATED						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Officer's Printed/Typed Name KEVIN D. SULLIVAN					Signature [Signature] Month Day Year 12 21 14	
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Greg Gaudin		Signature [Signature]		Month Day Year 12 21 14		
Transporter 2 Printed/Typed Name		Signature		Month Day Year		
18. Discrepancy						
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection qty est actual Recd 30518K						
18b. Alternate Facility (or Generator)				Manifest Reference Number: _____ U.S. EPA ID Number		
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)				Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Jodey Parfinski				Signature [Signature]		Month Day Year 12 24 14



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 02/24/14 as described on Shipping Document number 002233540GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166352301
CWM Unit #: 1*0
Disposal Date: 02/24/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

A handwritten signature in black ink, appearing to read 'Michael D. Mahar', is written over the printed name and title of the District Manager.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369345
02/25/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD380587969	2. Page 1 of 1	3. Emergency Response Phone (315) 374-8494	4. Manifest Tracking Number 002233541 GBF	
5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVA NY 13035			Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495			
Generator's Phone: (315) 454-5535						
6. Transporter 1 Company Name PAGE ETC, Inc			U.S. EPA ID Number NYD986968947			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107			U.S. EPA ID Number NYD049836619			
Facility's Phone: (716) 286-1550						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
			No.	Type		
	1.	RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, III NY304848	001	DT	Est 27272	K
	2.					
	3.					
4.						
14. Special Handling Instructions and Additional Information 1. NY304848 PCB SOIL >30PPM PCB: OSD 02/21/14 ERG #171 recd 32078K 8/16/3522 SR # 1021766-2 WEIGHT IN SECTION 11 IS ESTIMATED						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offero's Printed/Typed Name Kevin D. Sullivan					Signature <i>[Signature]</i>	
					Month 2	Day 21
					Year 14	
INT'L	16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
	Transporter signature (for exports only): _____					
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials					
	Transporter 1 Printed/Typed Name Robert Johnson					Signature <i>[Signature]</i>
					Month 2	Day 21
					Year 14	
DESIGNATED FACILITY	18. Discrepancy					
	18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
	Almost total recd 32078K					
	18b. Alternate Facility (or Generator) _____ Manifest Reference Number. _____ U.S. EPA ID Number _____					
	Facility's Phone: _____					
18c. Signature of Alternate Facility (or Generator) _____					Month 2	Day 24
					Year 14	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Jody Pafinski					Signature <i>[Signature]</i>	
					Month 2	Day 24
					Year 14	



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 02/24/14 as described on Shipping Document number 002233541GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166352201
CWM Unit #: 1*0
Disposal Date: 02/24/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369344
02/25/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD980582969	2. Page 1 of 1	3. Emergency Response Phone (315) 374-8494	4. Manifest Tracking Number 002233542 GBF	
5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVIA NY 13036			Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495			
Generator's Phone: (315) 454-5535			U.S. EPA ID Number NYD986969947			
6. Transporter 1 Company Name PAGE ETC, Inc			U.S. EPA ID Number			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, LLC 1550 BALMER RD. MODEL CITY NY 14107			U.S. EPA ID Number NYD049036679			
Facility's Phone: (716) 285-1550						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes
		No.	Type			
1.	RG, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, III NY304848	001	DT	27172	K	B007
2.						
3.						
4.						
14. Special Handling Instructions and Additional Information NY304848 PCB SOIL >50PPM PCB: OSD 2/2/14 ERG #171 WEIGHT IN SECTION 11 IS ESTIMATED SR# 1021708-3 rec 8166312 29729K						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 49 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Officer's Printed/Typed Name Kevin Sullivan					Signature [Signature]	
Month 2					Day 21	
Year 14						
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.:						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name FRANK SCHIEBLE					Signature [Signature]	
Transporter 2 Printed/Typed Name					Signature [Signature]	
Month 03					Day 21	
Year 14						
18. Discrepancy						
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
Manifest Reference Number:						
18b. Alternate Facility (or Generator)					U.S. EPA ID Number	
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)					Month 2	
					Day 24	
					Year 14	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Jody Parfinski					Signature [Signature]	
Month 2					Day 24	
Year 14						



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 02/24/14 as described on Shipping Document number 002233542GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166352001
CWM Unit #: 1*0
Disposal Date: 02/24/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369342
02/25/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved, OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD980582969		2. Page 1 of 1		3. Emergency Response Phone (315) 374-8494		4. Manifest Tracking Number 002233543 GBF	
		5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVIA NY 13035 Generator's Phone: (315) 454-5535		Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495					
6. Transporter 1 Company Name PAGE ETC, INC.		U.S. EPA ID Number NYD985969847							
7. Transporter 2 Company Name		U.S. EPA ID Number							
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107 Facility's Phone: (716) 286-1550		U.S. EPA ID Number NYD049836679							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, III NY304548				001 DT		EST 27272	K	B007
	2.								
	3.								
	4.								
14. Special Handling Instructions and Additional Information 1. NY304848 PCB SOIL >50PPM PCB: OSD 2/21/14 ERG #171 recd 29692K 81663521 SR# 1021706-4 WEIGHT IN SECTION 11 IS ESTIMATED									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offor's Printed/Typed Name As Agent for 5140 Commercial Drive LLC Kevin D. Sullivan								Signature [Signature] Month 2 Day 21 Year 14	
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name John Schieble					Signature [Signature]		Month 02 Day 21 Year 14		
Transporter 2 Printed/Typed Name					Signature		Month Day Year		
18. Discrepancy									
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection									
Manifest Reference Number:									
18b. Alternate Facility (or Generator) U.S. EPA ID Number									
Facility's Phone:									
18c. Signature of Alternate Facility (or Generator)								Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4.			
20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name Jody Parfinski					Signature [Signature]		Month 12 Day 24 Year 14		



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 02/24/14 as described on Shipping Document number 002233543GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166352101
CWM Unit #: 1*0
Disposal Date: 02/24/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

A handwritten signature in black ink, appearing to read 'Michael D. Mahar', is written over a horizontal line.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369343
02/25/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD980582969	2. Page 1 of 1	3. Emergency Response Phone (315) 374-8484	4. Manifest Tracking Number 002233544 GBF	
5. Generator's Name and Mailing Address 6140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVIA NY 13036			Generator's Site Address (if different than mailing address) 6140 COMMERCIAL DRIVE LLC 6140 COMMERCIAL DR YORKVILLE NY 13496			
Generator's Phone: (315) 454-5535			U.S. EPA ID Number NYD9806969947			
6. Transporter 1 Company Name PAGE ETC, Inc.			U.S. EPA ID Number			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address CWAM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107			U.S. EPA ID Number NYD049836679			
Facility's Phone: (716) 285-1550						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, III NY304648	001	DT	PST 27272	K	B007
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1. NY304648 PCB SOIL >50PPM PCB: OSD 2, 2.1, 14 ERG #171 WEIGHT IN SECTION 11 IS ESTIMATED 81663530 SR# 1021704-1 recd 31752K						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Officer's Printed/Typed Name: Kevin J. Sullivan				Signature: <i>[Signature]</i>		Month Day Year 2 24 14
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name: Rebecca Johnson				Signature: <i>[Signature]</i>		Month Day Year 2 24 14
Transporter 2 Printed/Typed Name:				Signature:		Month Day Year
18. Discrepancy						
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Qty est actual recd 31752K						
18b. Alternate Facility (or Generator)				U.S. EPA ID Number		
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)				Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132	2.	3.	4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name: Jody Porfinski				Signature: <i>[Signature]</i>		Month Day Year 2 25 14



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 02/25/14 as described on Shipping Document number 002233544GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166353001
CWM Unit #: 1*0
Disposal Date: 02/25/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369354
02/26/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY D 9 0 0 0 6 2 9 6 9	2. Page 1 of 1	3. Emergency Response Phone (315) 374-8494	4. Manifest Tracking Number 002233545 GBF		
5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVIA NY 13036 (315) 454-5535			Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495				
6. Transporter 1 Company Name PAGE ETC, Inc.			U.S. EPA ID Number NY D 9 0 0 0 6 2 9 6 9				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107 (716) 286-1550			U.S. EPA ID Number NY D 0 4 9 8 3 6 6 7 9				
Facility's Phone:							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, III NY304848	001	DT	(291) 272.72	K	B007
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information 1. NY304848 PCB SOIL >50PPM PCB: OSD 02/24/14 ERG #171 WEIGHT IN SECTION 11 IS ESTIMATED Recd 31489K 81663531 SD# 1027100-2							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Kevin D. Sullivan Agent for 5140 Commercial Drive LLC						Signature [Signature] Month 12 Day 24 Year 14	
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Port of entry/exit: _____ Date leaving U.S.: _____				
	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name Greg Gaudin		Signature [Signature]		Month 02 Day 24 Year 14		
	Transporter 2 Printed/Typed Name		Signature		Month Day Year		
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space ☒ Quantify ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Request actual recd 31489K						
	18b. Alternate Facility (or Generator)					U.S. EPA ID Number	
	Facility's Phone:						
	18c. Signature of Alternate Facility (or Generator)					Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a.							
Printed/Typed Name Jody Parfinski						Signature [Signature] Month 12 Day 25 Year 14	



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 02/25/14 as described on Shipping Document number 002233545GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166353401
CWM Unit #: 1*0
Disposal Date: 02/25/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

A handwritten signature in black ink, appearing to read 'Michael D. Mahar', written over a horizontal line.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369356
02/26/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD980582969		2. Page 1 of 1		3. Emergency Response Phone (315) 374 6494		4. Manifest Tracking Number 002233546 GBF	
		5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVIA NY 13036		Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495					
6. Transporter 1 Company Name PAGE ETC, Inc		U.S. EPA ID Number NYD986953947							
7. Transporter 2 Company Name		U.S. EPA ID Number							
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107		U.S. EPA ID Number NYD049836679							
Facility's Phone: (716) 286-1550									
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
				No.	Type				
	1.	RD. UN3432 POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, III		001	DT	372	K	B007	
	2.								
	3.								
	4.								
14. Special Handling Instructions and Additional Information 1. NY304848 PCB SOIL >50PPM PCB; OSD 12/2/1/1 ERG #171 recd 29783k 81663527 SR# 10217001-3 WEIGHT IN SECTION 11 IS ESTIMATED									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Officer's Printed/Typed Name Kevin D. Sullivan								Signature <i>[Signature]</i>	
								Month Day Year 2 24 14	
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name FRANK SCHIBBLE Signature <i>[Signature]</i> Month Day Year 2 24 14 Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____ _____ _____								
DESIGNATED FACILITY	18. Discrepancy								
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection								
	Manifest Reference Number: _____								
	18b. Alternate Facility (or Generator) U.S. EPA ID Number _____								
	Facility's Phone: _____								
18c. Signature of Alternate Facility (or Generator) _____								Month Day Year _____ _____ _____	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2. _____		3. _____		4. _____			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name Jody Parfinski								Signature <i>[Signature]</i>	
								Month Day Year 2 25 14	



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 02/25/14 as described on Shipping Document number 002233546GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166352701
CWM Unit #: 1*0
Disposal Date: 02/25/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

A handwritten signature in black ink, appearing to read 'Michael D. Mahar', is written over a horizontal line.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369351
02/26/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD980582969	2. Page 1 of 1	3. Emergency Response Phone (315) 374-9494	4. Manifest Tracking Number 002233547 GBF		
5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVIA NY 13035				Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495			
Generator's Phone: (315) 454-5535							
6. Transporter 1 Company Name PAGE ETC, Inc				U.S. EPA ID Number NYD98058296947			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107				U.S. EPA ID Number NYD049835679			
Facility's Phone: (716) 286-1550							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, III	001	DT	27072	K	B007
14. Special Handling Instructions and Additional Information 1. NY304645 PCB SOIL 500 PM PCB: OSD 02/29/14 ERG #171 WEIGHT IN SECTION 11 IS ESTIMATED recd 30600K 8/16/3528 SB# 1021709-1							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name Kerr D. Sullivan Commercial Waste LLC				Signature <i>[Signature]</i>		Month Day Year 12/29/14	
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name John Schieble Signature <i>[Signature]</i> Month Day Year 12/29/14 Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____							
18. Discrepancy 18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection quantity actual recd 30600K Manifest Reference Number: _____ U.S. EPA ID Number _____ 18b. Alternate Facility (or Generator) _____ Facility's Phone: _____ 18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. _____ 3. _____ 4. _____							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a Printed/Typed Name Andy Porfinski Signature <i>[Signature]</i> Month Day Year 12/29/14							



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 02/25/14 as described on Shipping Document number 002233547GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166352801
CWM Unit #: 1*0
Disposal Date: 02/25/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369352
02/26/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD980582969	2. Page 1 of 1	3. Emergency Response Phone (315) 374-8494	4. Manifest Tracking Number 002233548 GBF		
5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVIA NY 13036			Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495				
Generator's Phone: (315) 454-5535							
6. Transporter 1 Company Name PAGE ETC, Inc.				U.S. EPA ID Number NYD98058296947			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107				U.S. EPA ID Number NYD048836679			
Facility's Phone: (716) 286-1550							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, III NY304848	001	DT	27272	K	B007
14. Special Handling Instructions and Additional Information 1. NY304848 PCB SOIL +30PPM PCB: OSD 2/25/14 ERG #171 recd 31643K 81663541 SB# 1021710-1 WEIGHT IN SECTION 11 IS ESTIMATED							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name Kevin D. Sullivan Commercial Drive LLC					Signature <i>[Signature]</i>		Month Day Year 2/25/14
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Port of entry/exit: _____ Date leaving U.S.: _____				
	Transporter signature (for exports only): _____						
DESIGNATED FACILITY	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name Robbie Johnson		Signature <i>[Signature]</i>		Month Day Year 2/25/14		
	Transporter 2 Printed/Typed Name		Signature		Month Day Year		
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
	greatest actual recd 31643K						
	18b. Alternate Facility (or Generator)					U.S. EPA ID Number	
	Facility's Phone:						
	18c. Signature of Alternate Facility (or Generator)					Month Day Year	
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
	1. H132	2.	3.	4.			
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
	Printed/Typed Name Jodey Porfinski		Signature <i>[Signature]</i>		Month Day Year 2/26/14		



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 02/26/14 as described on Shipping Document number 002233548GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166354101
CWM Unit #: 1*0
Disposal Date: 02/26/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369367
02/27/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY D 9 8 0 6 8 2 9 6 9	2. Page 1 of 1	3. Emergency Response Phone (315) 374-8494	4. Manifest Tracking Number 002233549 GBF		
5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVIA NY 13035 (315) 454-5535				Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495			
6. Transporter 1 Company Name PAGE ETC, Inc.				U.S. EPA ID Number NY D 9 8 6 9 6 9 9 4 7			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107 (716) 286-1550				U.S. EPA ID Number NY D 0 4 9 8 3 6 6 7 9			
Facility's Phone:							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No	Type			
	X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, III NY304848	001	DT	E, 1 27272	K	B007
		2.					
		3.					
	4.						
14. Special Handling Instructions and Additional Information 1. NY304848 PCB SOIL >50PPM PCB: OSD 02/25/14 ERG #171 WEIGHT IN SECTION 11 IS ESTIMATED recd 32069K 81663542 SB # 1021710-2							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name Kevin D. Sullivan						Signature <i>[Signature]</i>	
						Month Day Year 02/25/14	
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
	Transporter signature (for exports only): _____						
DESIGNATED FACILITY	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name Greg Gaudin				Signature <i>[Signature]</i>		Month Day Year 02/25/14
	Transporter 2 Printed/Typed Name				Signature		Month Day Year
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
	at least actual recd 32069K						
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number		
	Facility's Phone:						
	18c. Signature of Alternate Facility (or Generator)					Month Day Year	
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
	1. H132	2.	3.	4.			
	20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
	Printed/Typed Name Jody Porfinski				Signature <i>[Signature]</i>		Month Day Year 12/26/14



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 02/26/14 as described on Shipping Document number 002233549GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166354201
CWM Unit #: 1*0
Disposal Date: 02/26/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369368
02/27/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY D 9 8 6 9 6 9 9 4 7	2. Page 1 of 1	3. Emergency Response Phone (315) 374-8494	4. Manifest Tracking Number 002233550 GBF	
5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVIA NY 13036 (315) 454 5635			Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495			
6. Transporter 1 Company Name PAGE ETC, INC.			U.S. EPA ID Number NY D 9 8 6 9 6 9 9 4 7			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107 (716) 266-1550			U.S. EPA ID Number NY D 0 4 9 8 3 6 6 7 9			
Facility's Phone:						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11 Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ. UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, III NY304848	001	DT	27272	K	B007
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1. NY304848 PCB SOIL >50PPM PCB: OSD 02/25/14 ERG #171 recd 29556K 8/6/3539 SR# 1021710-3 WEIGHT IN SECTION 11 IS ESTIMATED						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Officer's Printed/Typed Name Kevin J. Sullivan					Signature [Signature] Month Day Year 02/25/14	
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name FRAN SCHIEBLE Signature [Signature] Month Day Year 02/25/14 Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____ _____ _____						
18. Discrepancy 18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Manifest Reference Number: _____ 18b. Alternate Facility (or Generator) U.S. EPA ID Number _____ Facility's Phone: _____ 18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____ _____ _____						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. _____ 3. _____ 4. _____						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Jody Paffnski Signature [Signature] Month Day Year 2/26/14						



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 02/26/14 as described on Shipping Document number 002233550GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166353901
CWM Unit #: 1*0
Disposal Date: 02/26/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369365
02/27/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD9869699	2. Page 1 of 1	3. Emergency Response Phone (315) 374-8494	4. Manifest Tracking Number 002233551 GBF		
5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVIA NY 13035 (315) 454-5535			Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495				
6. Transporter 1 Company Name PAGE ETC Inc.			U.S. EPA ID Number NYD986969947				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD MODEL CITY NY 14107 (716) 286-1550			U.S. EPA ID Number NYD049836679				
Facility's Phone:							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9. III NY304848	001	DT	27272	K	B007
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information 1. NY304848 PCB SOIL - SUPPLY PCB: OSD 021251111 ERG #171 WEIGHT IN SECTION 11 IS ESTIMATED Recd 30799K 81663540 SR# 1021710-4							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name Kevin D. Sullivan		Signature <i>[Signature]</i>		Month 02		Day 25	
				Year 14			
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name John S. Michalek		Signature <i>[Signature]</i>		Month 02		Day 25	
				Year 14			
Transporter 2 Printed/Typed Name		Signature		Month		Day	
18. Discrepancy							
18a. Discrepancy Indication Space ☒ Quantify ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection at least actual Recd 30799K							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)				Month Day Year			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name John Perfiniski		Signature <i>[Signature]</i>		Month 12		Day 26	
				Year 14			



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 02/26/14 as described on Shipping Document number 002233551GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166354001
CWM Unit #: 1*0
Disposal Date: 02/26/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

A handwritten signature in black ink, appearing to read 'Michael D. Mahar', is written over a horizontal line.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369366
02/27/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD9806969	2. Page 1 of 1	3. Emergency Response Phone (315) 374-8494	4. Manifest Tracking Number 002233552 GBF		
5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVIA NY 13036			Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495				
Generator's Phone: (315) 454-5535							
6. Transporter 1 Company Name PAGE ETC, INC.			U.S. EPA ID Number NYD9806969947				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1950 BALMER RD. MODEL CITY NY 14107			U.S. EPA ID Number NYD049836679				
Facility's Phone: (716) 286-1550							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	1. RC, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, III NY304848	001	DT	2777L	K	E007
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information 1. NY304848 PCB SOIL >50PPM PCB: OSD 02/26/14 ERG #171 recd 31062k 816k3549 SR# 1021711-2 WEIGHT IN SECTION 11 IS ESTIMATED							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name Kevin D. Sullivan Commercial Services LLC			Signature <i>[Signature]</i>			Month Day Year 02/26/14	
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Port of entry/exit: _____ Date leaving U.S.: _____				
	Transporter signature (for exports only): _____						
DESIGNATED FACILITY	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name Greg Gaudin		Signature <i>[Signature]</i>			Month Day Year 02/26/14	
	Transporter 2 Printed/Typed Name		Signature			Month Day Year	
	18. Discrepancy						
	18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Attest actual recd 31062k						
	18b. Alternate Facility (or Generator)					U.S. EPA ID Number	
	Facility's Phone:						
	18c. Signature of Alternate Facility (or Generator)					Month Day Year	
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
	1. H123	2.	3.	4.			
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
	Printed/Typed Name Jody Pafinski			Signature <i>[Signature]</i>			Month Day Year 12/27/14



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

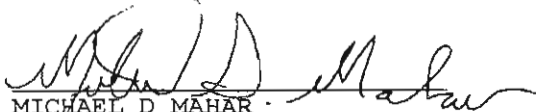
5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 02/27/14 as described on Shipping Document number 002233552GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166354901
CWM Unit #: 1*0
Disposal Date: 02/27/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.



MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369372
02/28/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY D 9 8 0 5 8 2 9 6 9	2. Page 1 of 1	3. Emergency Response Phone (315) 374-8494	4. Manifest Tracking Number 002233553 GBF		
5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVIA NY 13035				Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495			
Generator's Phone: (315) 454-5535				U.S. EPA ID Number NY D 9 8 9 9 6 9 9 4 7			
6. Transporter 1 Company Name PAGE ETC, Inc.				U.S. EPA ID Number			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107				U.S. EPA ID Number NY D 0 4 9 8 3 5 6 7 9			
Facility's Phone: (716) 286-1550							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9. III NY304848	001	DT	25 ft 27272	K	B007
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information 1. NY304848 PCB SOIL >500 PM PCB: OSD 02, 26, 14 ERG #171 recd 31198K 81663548 WEIGHT IN SECTION 11 IS ESTIMATED SR# 1021711-2							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offero's Printed/Typed Name KEVIN D. SULLIVAN						Signature <i>[Signature]</i>	
						Month 2	Day 26
						Year 14	
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____						
	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name Ralph J. Johnson						Signature <i>[Signature]</i>
						Month 2	Day 26
						Year 14	
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Attest actual recd 31198K						
	18b. Alternate Facility (or Generator)						U.S. EPA ID Number
	Facility's Phone:						
	18c. Signature of Alternate Facility (or Generator)						Month 2
						Year 14	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Jody Parfinski						Signature <i>[Signature]</i>	
						Month 2	Day 27
						Year 14	



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 02/27/14 as described on Shipping Document number 002233553GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166354801
CWM Unit #: 1*0
Disposal Date: 02/27/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

A handwritten signature in black ink, appearing to read 'Michael D. Mahar', is written over a horizontal line.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369371
02/28/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD980582969	2. Page 1 of 1	3. Emergency Response Phone (315) 374-8494	4. Manifest Tracking Number 002233554 GBF	
5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVIA NY 13035 (315) 454-5535			Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495			
6. Transporter 1 Company Name PAGE ETC, Inc.			U.S. EPA ID Number NYD9806969947			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107 (716) 286-1550			U.S. EPA ID Number NYD049836679			
Facility's Phone:						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
1.	RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE 9, III NY304848	001	DT	2727.2	K	B007
2.						
3.						
4.						
14. Special Handling Instructions and Additional Information 1. NY304848 PCB SOIL >50PPM PCB: OSD 02, 26, 41 WEIGHT IN SECTION 11 IS ESTIMATED ERG #171 recd 30318 K 816635716 SR# 1021711-3						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true						
Generator's/Officer's Printed/Typed Name Kevin D Sullivan			Signature [Signature]		Month 2	Day 26
16. International Shipments ☐ Import to U.S. ☐ Export from U.S.			Port of entry/exit: _____ Data leaving U.S.: _____			
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name PAINT C/HIEBIE			Signature [Signature]		Month 02	Day 26
Transporter 2 Printed/Typed Name			Signature [Signature]		Month 02	Day 26
18. Discrepancy						
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Qty est actual recd 30318 K						
18b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. 4132 2. 3. 4.						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name body partofinski			Signature [Signature]		Month 12	Day 27



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 02/27/14 as described on Shipping Document number 002233554GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166354601
CWM Unit #: 1*0
Disposal Date: 02/27/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369369
02/28/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY 0900502969	2. Page 1 of 1	3. Emergency Response Phone (315) 374-8494	4. Manifest Tracking Number 002233555 GBF	
5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVIA NY 13035 Generator's Phone: (315) 454-5535			Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495			
6. Transporter 1 Company Name PAGE ETC, Inc.			U.S. EPA ID Number NY 0900502969			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107 Facility's Phone: (716) 266-1550			U.S. EPA ID Number NY 049836679			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RO, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9. III NY304848	001	DT	27276	K	B007
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1. NY304848 PCB SOIL >50PPM PCB: OSD 02/26/14 ERG #171 WEIGHT IN SECTION 11 IS ESTIMATED recd 30482K 81663547 SR# 1-21711-4						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offeree's Printed/Typed Name Ken D Sullivan Commercial Drive LLC			Signature [Signature]		Month 02	Day 26
16. International Shipments ☐ Import to U.S. Transporter signature (for exports only):			☐ Export from U.S. Port of entry/exit: Date leaving U.S.:		Year 14	
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name John Schiele			Signature [Signature]		Month 3	Day 26
Transporter 2 Printed/Typed Name			Signature		Month	Day
18. Discrepancy						
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection at least actual recd 30482K Manifest Reference Number						
18b. Alternate Facility (or Generator)			U.S. EPA ID Number			
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)			Month Day Year			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Jody Parfinski			Signature [Signature]		Month 12	Day 27



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 02/27/14 as described on Shipping Document number 002233555GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166354701
CWM Unit #: 1*0
Disposal Date: 02/27/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369370
02/28/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY D 9 8 6 9 6 9 6 9	2. Page 1 of 1	3. Emergency Response Phone (315) 374-8494	4. Manifest Tracking Number 002233556 GBF	
5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVIA NY 13035 (315) 454-5535			Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495			
6. Transporter 1 Company Name PAGE ETC, Inc			U.S. EPA ID Number NY D 9 8 6 9 6 9 6 9			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107 (716) 268-1550			U.S. EPA ID Number NY D 0 4 9 8 3 6 6 7 9			
Facility's Phone:						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RO. UN3432. POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9. III NY304848	001	DT	257.27272	K	B007
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1. NY304848 PCB SOIL >60PPM PCB: OSD 02/27/14 ERG #171 WEIGHT IN SECTION 11 IS ESTIMATED 30672 K recd 3/24/14 81663555 SR# 021712-1						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offendor's Printed/Typed Name Kevin D. Sullivan					Signature <i>[Signature]</i>	
					Month Day Year 02/27/14	
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name GREG GARDIN					Signature <i>[Signature]</i>	
					Month Day Year 02/27/14	
Transporter 2 Printed/Typed Name					Signature	
					Month Day Year	
18. Discrepancy						
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Allyest actual recd 3/24/14 30672 K Manifest Reference Number: _____						
18b. Alternate Facility (or Generator)						U.S. EPA ID Number
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)						Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.	2.	3.	4.			
H132						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Jackie P. Parnick					Signature <i>[Signature]</i>	
					Month Day Year 2/28/14	



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 02/28/14 as described on Shipping Document number 002233556GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166355501
CWM Unit #: 1*0
Disposal Date: 02/28/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369378
03/03/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY D 9 8 0 6 8 2 9 8 9	2. Page 1 of 1	3. Emergency Response Phone (316) 374-8494	4. Manifest Tracking Number 002233557 GBF		
5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVIA NY 13035 (315) 454-5535				Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495			
6. Transporter 1 Company Name PAGE ETC, Inc.				U.S. EPA ID Number NY D 9 8 6 9 6 9 9 4 7			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107 (716) 286-1550				U.S. EPA ID Number NY D 0 4 9 8 3 6 6 7 9			
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RO. UN3432. POLYCHLORINATED BIPHENYLS, SOLID MIXTURE. 9, III NY304848	001	DT	27272	K	8007	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. NY304848 PCB SOIL > 50PPM PCB: OSD 07/27/14 ERG #171 WEIGHT IN SECTION 11 IS ESTIMATED Recd 31244K 81463554 SQ# 1021712-2							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name Kevin D Sullivan Commercial Drive LLC				Signature 		Month Day Year 02 27 14	
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Robbie Johnson				Signature 		Month Day Year 12 27 14	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Actual received 31244K							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Jody Pafinski				Signature 		Month Day Year 12 28 14	



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 02/28/14 as described on Shipping Document number 002233557GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166355401
CWM Unit #: 1*0
Disposal Date: 02/28/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369377
03/03/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY D 9 8 0 5 8 2 9 6 9	2. Page 1 of 1	3. Emergency Response Phone (315) 374-8494	4. Manifest Tracking Number 002233558 GBF		
5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVIA NY 13035 (315) 454-5535				Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495			
6. Transporter 1 Company Name PAGE ETC, Inc				U.S. EPA ID Number NY D 9 8 0 5 8 2 9 6 9 4 7			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107 (716) 286-1550				U.S. EPA ID Number NY D 0 4 9 8 3 6 6 7 9			
Facility's Phone:							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	1. RO, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9. III NY304648	001	DT	27272	K	9007
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information 1. NY304648 PCB SOIL >50PPM PCB: OSD 021271 14 ERG #171 recd 30255K 81663552 SR# 1021712-3 WEIGHT IN SECTION 11 IS ESTIMATED							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name Kevin D Sullivan DRIVE LLC						Signature <i>[Signature]</i> Month Day Year 02 27 14	
TRANSPORTER INTL	16. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Port of entry/exit: _____ Date leaving U.S.: _____				
	Transporter signature (for exports only): _____						
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name FRAN Uchale		Signature <i>[Signature]</i>			Month Day Year 02 27 14	
	Transporter 2 Printed/Typed Name		Signature <i>[Signature]</i>			Month Day Year	
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection quantity actual recd 30255K						
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number		
	Facility's Phone:						
	18c. Signature of Alternate Facility (or Generator)						Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a							
Printed/Typed Name Jody Partinski						Signature <i>[Signature]</i> Month Day Year 2 28 14	



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 02/28/14 as described on Shipping Document number 002233558GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166355201
CWM Unit #: 1*0
Disposal Date: 02/28/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369375
03/03/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD980602969	2. Page 1 of 1	3. Emergency Response Phone (315) 374-8494	4. Manifest Tracking Number 002233559 GBF						
5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVIA NY 13035				Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495							
Generator's Phone: (315) 454-6535											
6. Transporter 1 Company Name PAGE ETC Inc				U.S. EPA ID Number NYD9806969947							
7. Transporter 2 Company Name				U.S. EPA ID Number							
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107				U.S. EPA ID Number NYD049836679							
Facility's Phone: (716) 286-1500											
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
				No.	Type						
				1. RO, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, III NY304648			001	DT	27272	K	B007
				2.							
				3.							
4.											
14. Special Handling Instructions and Additional Information 1. NY304648 PCB SOIL >50PPM PCB: OSD 02/27/14 ERG #171 WEIGHT IN SECTION 11 IS ESTIMATED recd 30872K 81663553 SR# 1021712-4											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Officer's Printed/Typed Name ON BEHALF OF 5140 COMMERCIAL DRIVE LLC Signature [Signature] Month 02 Day 27 Year 14											
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____ Transporter signature (for exports only): _____											
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name John Schuchle Signature [Signature] Month 2 Day 27 Year 14 Transporter 2 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____											
18. Discrepancy 18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Actual + actual rec'd 30872K Manifest Reference Number: _____ 18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____ Facility's Phone: _____ 18c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____											
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. _____ 3. _____ 4. _____											
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Jody Pafinski Signature [Signature] Month 2 Day 28 Year 14											



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 02/28/14 as described on Shipping Document number 002233559GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166355301
CWM Unit #: 1*0
Disposal Date: 02/28/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

A handwritten signature in black ink, appearing to read 'Michael D. Mahar'.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369376
03/03/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY0500502969	2. Page 1 of 1	3. Emergency Response Phone (315) 374-8494	4. Manifest Tracking Number 002233560 GBF		
5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVIA NY 13035			Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495				
Generator's Phone: (315) 454-5535			U.S. EPA ID Number NY0500502969947				
6. Transporter 1 Company Name PAGE ETC, Inc.			U.S. EPA ID Number				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1050 BALMER RD MODEL CITY NY 14107			U.S. EPA ID Number NYD049036679				
Facility's Phone: (716) 266-1550							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	1. RQ, UN3432 POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, III NY304848	001	DT	27272	K	B007
		2.					
		3.					
	4.						
14. Special Handling Instructions and Additional Information 1. NY304848 PCB SOIL >50PPM PCB: OSD <128, 14 ERG #171 recd 30999K 8/16/3573 SR# 10220501-1 WEIGHT IN SECTION 11 IS ESTIMATED							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name Rev. D. Sullivan Signature [Signature] Month 10 Day 28 Year 14							
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Greg Gaudin Signature [Signature] Month 10 Day 28 Year 14 Transporter 2 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____						
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☒ Full Rejection Cityest actual recd 30999K						
	18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____						
	Facility's Phone: _____						
	18c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____						
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
	1. H132	2. _____	3. _____	4. _____			
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
	Printed/Typed Name Jody Parfinski Signature [Signature] Month 13 Day 4 Year 14						



CWM CHEMICAL SERVICES, LLC
1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 03/04/14 as described on Shipping Document number 002233560GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166357301
CWM Unit #: 1*0
Disposal Date: 03/04/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369403
03/05/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY 0 9 8 0 5 6 2 9 6 9	2. Page 1 of 1	3. Emergency Response Phone (315) 374-8494	4. Manifest Tracking Number 002233561 GBF		
5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVIA NY 13035 Generator's Phone: (315) 454-5535			Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495				
6. Transporter 1 Company Name PAGE ETC Inc.					U.S. EPA ID Number NY 0 9 8 0 5 6 2 9 6 9 4 7		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1850 BALMER RD. MODEL CITY NY 14107 Facility's Phone: (716) 286-1550					U.S. EPA ID Number NY 0 0 4 9 8 3 5 6 7 9		
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes
			No	Type			
	X	1. RO, UN3432. POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, III NY304848	001	DT	21272	K	B007
		2.					
		3.					
	4.						
14. Special Handling Instructions and Additional Information 1. NY304848 PCB SOIL >50PPM PCB: OSD 12 / 78 / 11 ERG #171 WEIGHT IN SECTION 11 IS ESTIMATED recd 31706K 81663560 SPT# 1022059-2							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name Kevin D. Sullivan			Signature <i>[Signature]</i>			Month Day Year 10 28 14	
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____						
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Robbie Johnson Signature <i>[Signature]</i> Month Day Year 2 28 14 Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____						
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Actual actual recd 31706K						
	18b. Alternate Facility (or Generator)			U.S. EPA ID Number			
	Facility's Phone: _____						
	18c. Signature of Alternate Facility (or Generator)					Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a							
Printed/Typed Name Jadey Parfinski			Signature <i>[Signature]</i>			Month Day Year 13 13 14	



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 03/03/14 as described on Shipping Document number 002233561GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166356001
CWM Unit #: 1*0
Disposal Date: 03/03/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369382
03/04/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD980682969	2. Page 1 of 1	3. Emergency Response Phone (315) 374-8494	4. Manifest Tracking Number 002233562 GBF		
5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVIA NY 13035 (315) 454-5535				Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13496			
6. Transporter 1 Company Name PAGE ETC, Inc				U.S. EPA ID Number NYD9806969947			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107 (716) 286-1550				U.S. EPA ID Number NYD049836679			
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
X	1. RO, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, III NY304948	001 DT	27272	K	B007		
14. Special Handling Instructions and Additional Information 1. NY304948 PCB SOIL - 50PPM PCB: OSD 12/28/14 ERG #171 recd 31262K 81613558 SR# 1022059-3 WEIGHT IN SECTION 11 IS ESTIMATED							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name Kevin D. Sullivan				Signature <i>[Signature]</i>		Month Day Year 10/28/14	
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name FRAN UCHICABLE Signature <i>[Signature]</i> Month Day Year 10/28/14 Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____ _____ _____							
18. Discrepancy							
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection qty est actual recd 31262K Manifest Reference Number: _____							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Jody Parginski				Signature <i>[Signature]</i>		Month Day Year 3/3/14	



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 03/03/14 as described on Shipping Document number 002233562GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166355801
CWM Unit #: 1*0
Disposal Date: 03/03/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369380
03/04/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD986969847	2. Page 1 of 1	3. Emergency Response Phone (315) 374-8494	4. Manifest Tracking Number 002233563 GBF	
5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN STREET CAZENOVIA NY 13035 (315) 454-5535			Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495			
6. Transporter 1 Company Name PAGE ETC, Inc			U.S. EPA ID Number NYD986969847			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107 (716) 285-1550			U.S. EPA ID Number NYD049836679			
Facility's Phone:						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, III NY304848	001	DT	25 272L	K	B007
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1. NY304848 PCB SOIL - 50PPM PCB: OSD 02128114 ERG #171 WEIGHT IN SECTION 11 IS ESTIMATED recd 30092K 8/6/35/9 SR#1022059-4						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exportor, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offero's Printed/Typed Name Kevin D. Sullivan Commercial Drive LLC			Signature <i>[Signature]</i>		Month 02	Day 28
16. International Shipments ☐ Import to U.S. ☐ Export from U.S.			Port of entry/exit: Date leaving U.S.:			
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name John Schreder Signature <i>[Signature]</i> Month 2 Day 28 Year 14 Transporter 2 Printed/Typed Name Signature Month Day Year						
18. Discrepancy						
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Attest actual recd 30092K Manifest Reference Number:						
18b. Alternate Facility (or Generator)			U.S. EPA ID Number			
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)			Month Day Year			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132	2.	3.	4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name John P. Fink Signature <i>[Signature]</i> Month 3 Day 3 Year 14						



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 03/03/14 as described on Shipping Document number 002233563GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166355901
CWM Unit #: 1*0
Disposal Date: 03/03/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369381
03/04/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD980502989		2. Page 1 of 1		3. Emergency Response Phone (800) 424- 9309		4. Manifest Tracking Number 002233576 GBF		
		5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 8 SULLIVAN ST CAZENOVIA NY 13035		Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495						
Generator's Phone: (315) 454- 5535		6. Transporter 1 Company Name PAGE E.T.C.		U.S. EPA ID Number NYD986969947						
7. Transporter 2 Company Name				U.S. EPA ID Number						
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107		Facility's Phone: (716) 286- 1550		U.S. EPA ID Number NYD049836679						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No. Type		11. Total Quantity	12. Unit Wt/Vol.	13. Waste Codes	
	X	1. RQ. UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III NY304848			XX 1	DT	EST. 21272	K	B007	
		2.								
		3.								
		4.								
14. Special Handling Instructions and Additional Information NY304848 - SOIL AND CONCRETE WITH PCBs >50 PPM PCBs ERG# 171 Recd 31743K 81663568 PCB OUT OF SERVICE DATE: 03-03-14 WEIGHT IN SECTION 11 IS ESTIMATED ER SERVICE CONTRACTED BY WASTE MANAGEMENT CGN24117 SR# 1022245-1										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offor's Printed/Typed Name Kevin D. Sullivan Signature [Signature] Month 03 Day 03 Year 14										
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____									
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name GORDON N SULLIVAN Signature [Signature] Month 3 Day 03 Year 14 Transporter 2 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____									
DESIGNATED FACILITY	18. Discrepancy									
	18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection atquest actual recd 31743K Manifest Reference Number. _____ U.S. EPA ID Number _____									
	18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____									
	Facility's Phone: _____ 18c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. _____ 3. _____ 4. _____										
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Jody Perfinski Signature [Signature] Month 3 Day 14 Year 14										



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 03/04/14 as described on Shipping Document number 002233576GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166356801
CWM Unit #: 1*0
Disposal Date: 03/04/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369399
03/05/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD986969747	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number 002233597 GBF	
5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN ST CAZENOVIA NY 13035 (315) 454-6535			Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495			
6. Transporter 1 Company Name Page Eic Inc			U.S. EPA ID Number NYD986969747			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107 (715) 288-1550			U.S. EPA ID Number NYD049836579			
Facility's Phone:						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
1.	RO, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III NY304848	XX 1	DT	27272	K	B007
2.						
3.						
4.						
14. Special Handling Instructions and Additional Information NY304848 - SOIL AND CONCRETE WITH PCBs >50 PPM PCBs. ERG# 171 recd 30944K 8/6/3579 PCB OUT OF SERVICE DATE: 03-03-14. WEIGHT IN SECTION 11 IS ESTIMATED ER SERVICE CONTRACTED BY WASTE MANAGEMENT CCN24117 SR # 1022245-2						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Officer's Printed/Typed Name Kevin D. Smith Commercial Waste LLC		Signature <i>[Signature]</i>		Month Day Year 03 03 14		
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name FRANC Schiele		Signature <i>[Signature]</i>		Month Day Year 03 03 14		
Transporter 2 Printed/Typed Name		Signature		Month Day Year		
18. Discrepancy						
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Qty est actual recd 30944K						
18b. Alternate Facility (or Generator)				U.S. EPA ID Number		
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)				Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Kyle Parfinski		Signature <i>[Signature]</i>		Month Day Year 13 14 14		



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 03/04/14 as described on Shipping Document number 002233597GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166356901
CWM Unit #: 1*0
Disposal Date: 03/04/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369400
03/05/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD980582969		2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300		4. Manifest Tracking Number 002233598		GBF
		5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN ST CAZENOVIA NY 13036 (315) 454-5535		Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495					
6. Transporter 1 Company Name Page Etc Inc.		U.S. EPA ID Number 1NYD986969747							
7. Transporter 2 Company Name		U.S. EPA ID Number							
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1650 BALMER RD. MODEL CITY NY 14107 (716) 286-1550		U.S. EPA ID Number NYD049836679							
Facility's Phone:									
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1.	RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III NY304648			XX 1 DT		27272	K	B007
	2.								
	3.								
	4.								
14. Special Handling Instructions and Additional Information 1. NY304648 - SOL. AND CONCRETE WITH PCBS >50 PPM PCBS. ERG#171 recd 24712K 81663570 PCB OUT OF SERVICE DATE: 6-5-05. 111. WEIGHT IN SECTION 11 IS ESTIMATED ER SERVICE CONTRACTED BY WASTE MANAGEMENT CON24117 SR# 1022245-3									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Officer's Printed/Typed Name KEVIN D. SULLIVAN COMMERCIAL DRIVING LLC		Signature <i>[Signature]</i>					Month Day Year 03 03 14		
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____								
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name JOHN SCHIEBLE Signature <i>[Signature]</i> Month Day Year 07 03 14 Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____								
DESIGNATED FACILITY	18. Discrepancy 18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Manifest Reference Number: _____								
	18b. Alternate Facility (or Generator) U.S. EPA ID Number _____								
	Facility's Phone: _____								
	18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____								
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. _____ 3. _____ 4. _____								
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Jody Parfinski Signature <i>[Signature]</i> Month Day Year 3 4 14									



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 03/04/14 as described on Shipping Document number 002233598GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166357001
CWM Unit #: 1*0
Disposal Date: 03/04/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

A handwritten signature in black ink, appearing to read 'Michael D. Mahar', is written over a horizontal line.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369401
03/05/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD980502969		2. Page 1 of 1	3. Emergency Response Phone (800) 424-3300		4. Manifest Tracking Number 002233596		GBF	
		5. Generator's Name and Mailing Address 5140 COMMERCIAL DRIVE LLC c/o WSP USA CORP 5 SULLIVAN ST CAZENOVIA NY 13036		Generator's Site Address (if different than mailing address) 5140 COMMERCIAL DRIVE LLC 5140 COMMERCIAL DR YORKVILLE NY 13495						
Generator's Phone: (315) 454-6535		6. Transporter 1 Company Name Perry Trucking Etc Inc				U.S. EPA ID Number NYD936969947				
7. Transporter 2 Company Name						U.S. EPA ID Number				
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107						U.S. EPA ID Number NYD049036679				
Facility's Phone: (716) 286-1550										
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III NY304848			XX 1 DT 21272			K	B007	
		2.								
		3.								
		4.								
14. Special Handling Instructions and Additional Information NY304848 - SOIL AND CONCRETE WITH PCBs - 50 PPM PCBs ERG# 171 Recd 29520K 81663605 PCB OUT OF SERVICE DATE: 3-6-14 WEIGHT IN SECTION 11 IS ESTIMATED ER SERVICE CONTRACTED BY WASTE MANAGEMENT CCN24117 SR# 1022594-1										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offeror's Printed/Typed Name Kevin D. Sullivan		Signature <i>[Signature]</i>		Month 03		Day 06		Year 14		
TRANSPORTER INTL	16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:									
	Transporter signature (for exports only):									
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials									
	Transporter 1 Printed/Typed Name James Costigan		Signature <i>[Signature]</i>		Month 3		Day 1		Year 14	
DESIGNATED FACILITY	Transporter 2 Printed/Typed Name		Signature		Month		Day		Year	
18. Discrepancy										
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection										
Manifest Reference Number:										
18b. Alternate Facility (or Generator) U.S. EPA ID Number										
Facility's Phone:										
18c. Signature of Alternate Facility (or Generator) Month Day Year										
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. H332 2. 3. 4.										
20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
Printed/Typed Name Jody Parfinski		Signature <i>[Signature]</i>		Month 13		Day 17		Year 14		



CWM CHEMICAL SERVICES, LLC

1550 Balmer Road
Model City, NY 14107
716 286 1550
716 286 0211 Fax

5140 COMMERCIAL DRIVE LLC
ATTN: C/O WSP USA CORP.
NYD980582969
5 SULLIVAN STREET
CAZENOVIA NY 13036

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from 5140 COMMERCIAL DRIVE LLC on 03/07/14 as described on Shipping Document number 002233596GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY304848
CWM Tracking ID: 8166360501
CWM Unit #: 1*0
Disposal Date: 03/07/14

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 369439
03/10/14

For questions please call
our Customer Service Dept.
at (800) 843-3604

Appendix E – Slide-Rail Shoring System Design



rent the right way

MABEY INC.

6770 DORSEY ROAD, ELKRIDGE, MD 21075
410-379-2800

SUPPORT-OF-EXCAVATION DESIGN CALCULATIONS

Engineering Job No.: ROCH015/14
Contractor: Paragon Environmental Construction
Site: 5140 Commercial Drive
Utica, NY
Date: February 10, 2014
Designed By: Daniel Stempel
Checked by: Brian Jones



Equipment:

1. (4) Slide Rail Panel 8' x 20' XH (PS-P-820XH)
2. (4) Slide Rail Panel 8' x 8' (PS-P88)
3. (4) 18" Double Corner Post – 216" (PS-DCP216)

Design Assumptions:

Excavation Size: 11' x 23' x 16' deep - (see attached sketch)
Soil Type: Soil Assumed to be: C60
Ground Water: No Groundwater Present

Contractor's Responsibilities

Contractor to verify that the actual soil encountered matches the soil assumed.

This design is based solely on information provided by the contractor. No attempt has been made, or can be made, to verify the validity of this information or determine if other factors should be considered.

It is the contractor's responsibility to verify that the information he has provided is complete and correct, and the configuration is satisfactory for the given site and the intended work.

The contractor's attention is drawn to the provisions of O.S.H.A.'s "Construction Standard for Excavations (29 CFR Part 1926/P)."

Important – Please read

If actual site conditions are not as stated above (i.e., soil type, water table, dimensions of excavation, etc.), you should immediately contact the Engineering Department of Mabey Inc. at 410-379-2800 for direction on how to proceed.

Salesmen and Technicians are not authorized to make changes to this design. The role of the Technician is to explain the proper use of Mabey equipment. He/She is not permitted to perform any other work on the job site. You should not attempt to reconfigure the shoring scheme without approval. If changes to this design are required, installation of the shoring equipment should not proceed until you are in receipt of the revised drawings and calculations from Mabey Inc.

CONTRACTOR'S RESPONSIBILITIES

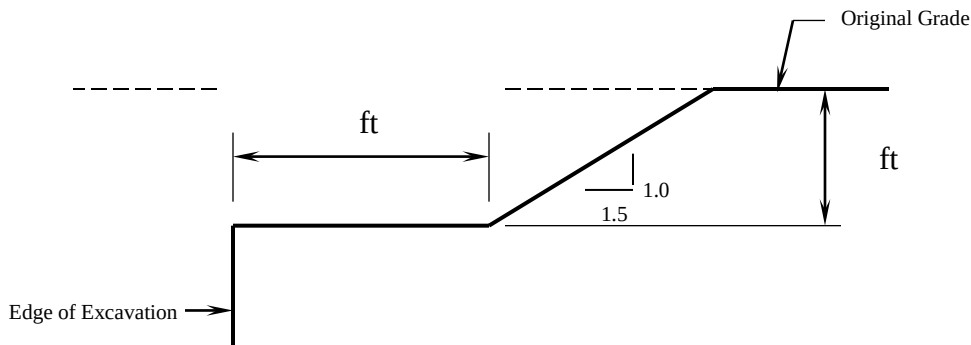
Customer: Paragon Environmental

Engineering No.: ROCH015/14

The following items of work are required to be done by the contractor to validate the attached quote or engineering for Mabey Inc. equipment:

BENCHING:

- ☒ No benching is required for this excavation.
- ☐ Benching is required and must conform to the following sketch:



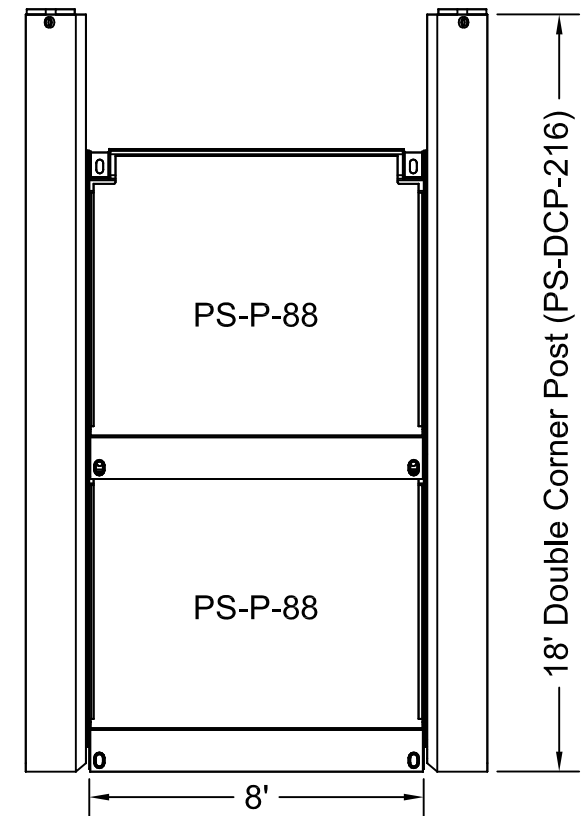
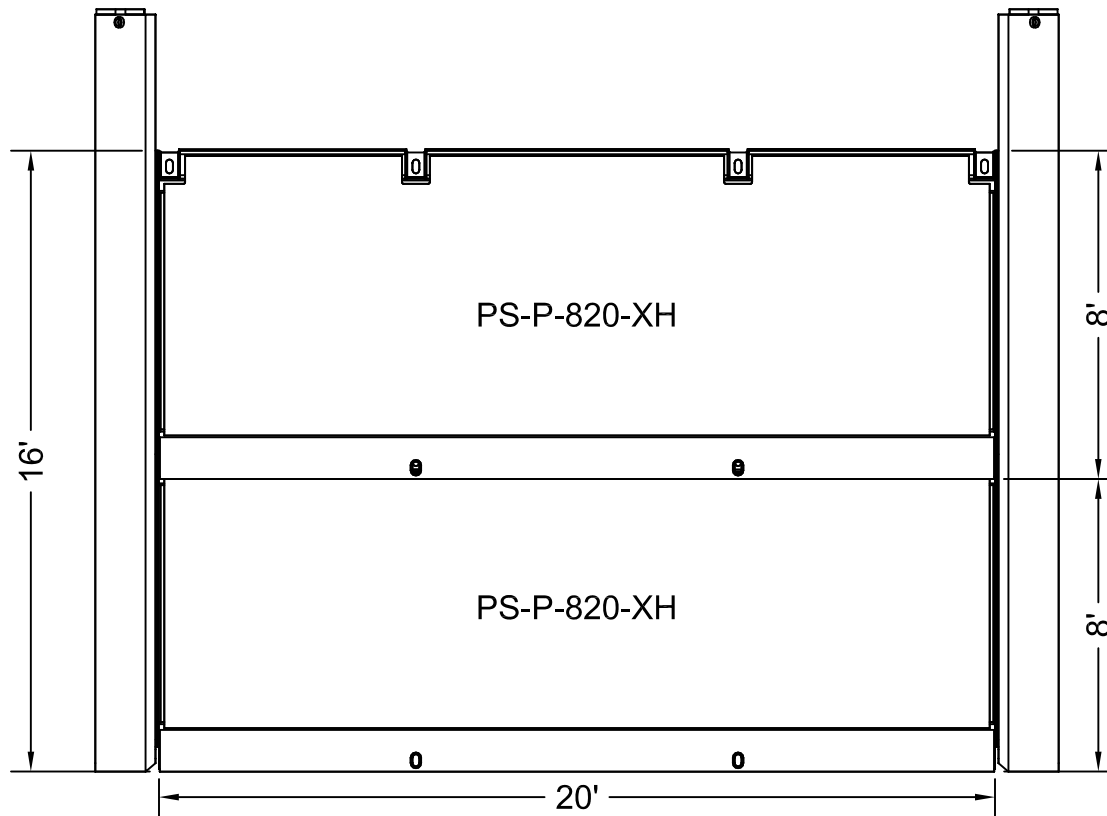
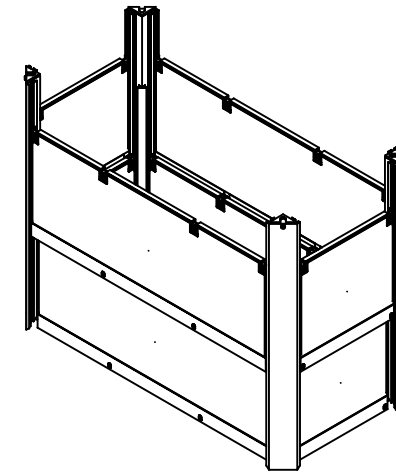
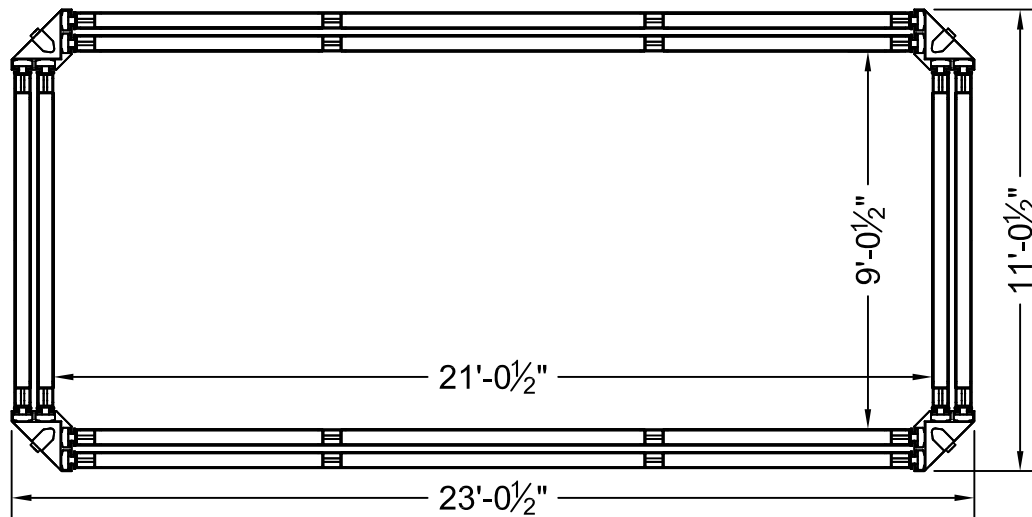
DEWATERING:

- ☐ No dewatering outside the sheeting is required for this excavation.
- ☐ Dewatering outside the sheeting is required to a depth of - ft.
- ☒ If groundwater is present above the bottom of the excavation, dewatering outside the sheeting is required to a depth of 16 ft.

Depth of dewatering is measured from original grade.

NOTE:

Required benching and dewatering must be accomplished prior to the arrival of Mabey Inc. Technical Representative. Failure to have the site properly prepared prior to the arrival of Mabey personnel may result in delays to the installation of Mabey equipment and/or additional charges.



Subject To Engineering Approval.

All Information Included Or Referenced Herein Shall Be Treated As Confidential To Pro-Tec Equipment © 2008



PRO-TEC Equipment			
P.O. Box 130 1298 Lipsey Dr.-Charlotte MI 48813 (517) 541-0303 1-800-292-1225			
Customer: ~	Page 1 Of 1		
Dwg. # Q-SR-D-16Hx8Wx20L			
Date: 25-Jul-2012	By: C. Stevens	Double Slide Rail Bore Pit	

SA: SR88PAN

DATE: 2/17/02

SR8

8

4DKE

SLIDE RAIL PANEL RATINGS

DESIGN FOR SLIDE RAIL PANEL WITH 4 HORIZONTAL STRINGERS
DOUBLE WALL WITH KNIFE EDGE

ENTER TOTAL HEIGHT OF PANEL IN INCHES	94.25
ENTER HEIGHT OF UPPER TUBE IN INCHES	11.00 (INCLUDES 8X4X1/2 TOP TUBE)
ENTER HEIGHT OF SECOND TUBE IN INCHES	2.00
ENTER HEIGHT OF THIRD TUBE IN INCHES	2.00
ENTER HEIGHT OF BOTTOM TUBE IN INCHES	6.00
ENTER HEIGHT OF KNIFE EDGE IN INCHES	8.00

HEIGHT OF INSIDE SPACE IN INCHES	65.25
ENTER HEIGHT OF UPPER SPACE IN INCHES	24.00 *
ENTER HEIGHT OF MIDDLE SPACE IN INCHES	20.50 * (CHECK MATH !!)
ENTER HEIGHT OF LOWER SPACE IN INCHES	20.50 *

ENTER WIDTH OF TUBE IN INCHES	4.0000
ENTER PLATE THICKNESS IN INCHES	0.2500
WIDTH OF PANEL IN INCHES	4.5000

ENTER TOTAL LENGTH OF PANEL IN INCHES	96.00	8.00 FEET
ENTER LOAD INSET DIMENSION	4.00	
LENGTH OF SPAN FOR DESIGN IN INCHES	88.00	

ENTER TYPE OF TUBE

UPPER	4X3X1/4	SECOND	2X4X3/16	THIRD	2X4X3/16	LOWER	6X4X3/16
ENTER I FOR EACH TUBE (CAUTION Ixx OR Iyy)							
UPPER	6.45	SECOND	3.87	THIRD	3.87	LOWER	23.90 INC. KE Iyy

ENTER STEEL STRENGTH IN PSI	55000

PROPERTIES	UPPER	SECOND	THIRD	LOWER
I TOTAL IN4	56.18	58.69	54.73	56.11
S TOTAL IN3	24.97	26.08	24.32	24.94
P AVERAGE PSF	7088	7022	7058	6714
D AVERAGE INCHES	82.75	59.13	35.50	12.13

STRINGER RATINGS	UPPER	SECOND	THIRD	LOWER	DEPTH (FEET)
AT 25 PSF	7260	7146	7132	6740	270
AT 45 PSF	7398	7244	7192	6760	150
AT 60 PSF	7502	7318	7236	6775	113

PSF RATINGS	PSF
AT 25 PSF	6740
AT 45 PSF	6760
AT 60 PSF	6775

THIS PROGRAM COMPUTES THE MAXIMUM PSF AND DEPTH RATINGS FOR THE HORIZONTAL PANEL MEMBERS ONLY. CONSIDERATION OF THE TOP 8X4 TUBE IS NOT INCLUDED. CONSIDERATION OF THE BOTTOM KNIFE EDGE IS INCLUDED.

SA: SR820XH
DATE: 2/24/02

SR8 20 4DKEXH SLIDE RAIL PANEL RATINGS

DESIGN FOR SLIDE RAIL PANEL WITH 4 HORIZONTAL STRINGERS
DOUBLE WALL WITH KNIFE EDGE

ENTER TOTAL HEIGHT OF PANEL IN INCHES	94.25
ENTER HEIGHT OF UPPER TUBE IN INCHES	12.00 (INCLUDES 8X4X1/2 TOP TUBE)
ENTER HEIGHT OF SECOND TUBE IN INCHES	8.00
ENTER HEIGHT OF THIRD TUBE IN INCHES	8.00
ENTER HEIGHT OF BOTTOM TUBE IN INCHES	16.00
ENTER HEIGHT OF KNIFE EDGE IN INCHES	8.00

HEIGHT OF INSIDE SPACE IN INCHES	42.25
ENTER HEIGHT OF UPPER SPACE IN INCHES	20.00 *
ENTER HEIGHT OF MIDDLE SPACE IN INCHES	14.50 * (CHECK MATH !!)
ENTER HEIGHT OF LOWER SPACE IN INCHES	7.50 *

ENTER WIDTH OF TUBE IN INCHES	4.0000
ENTER PLATE THICKNESS IN INCHES	0.2500
WIDTH OF PANEL IN INCHES	4.5000

ENTER TOTAL LENGTH OF PANEL IN INCHES	240.00	20.00 FEET
ENTER LOAD INSET DIMENSION	4.00	
LENGTH OF SPAN FOR DESIGN IN INCHES	232.00	

ENTER TYPE OF TUBE									
UPPER	4X4X1/4	SECOND	8X4X1/2	THIRD	8X4X1/2	LOWER	(2)8X4X1/2		
ENTER I FOR EACH TUBE (CAUTION Ixx OR Iyy)									
UPPER	8.22	SECOND	24.60	THIRD	24.60	LOWER	67.30	INC. KE Iyy	

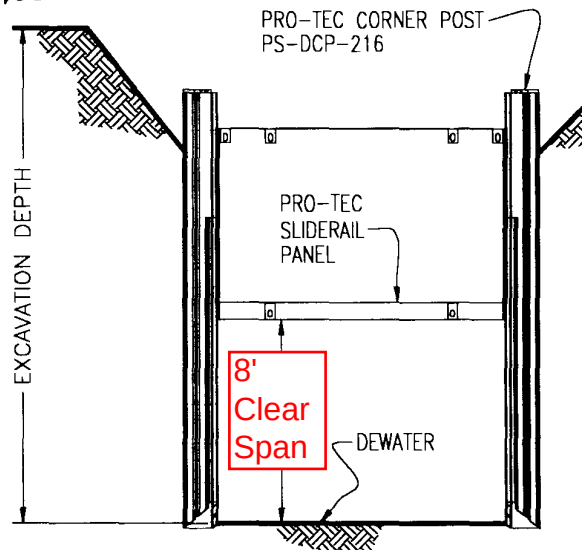
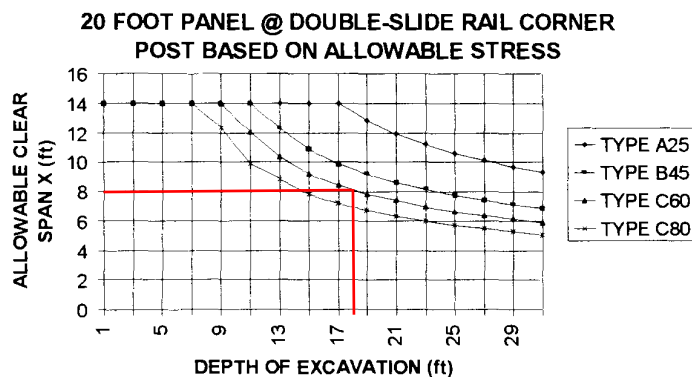
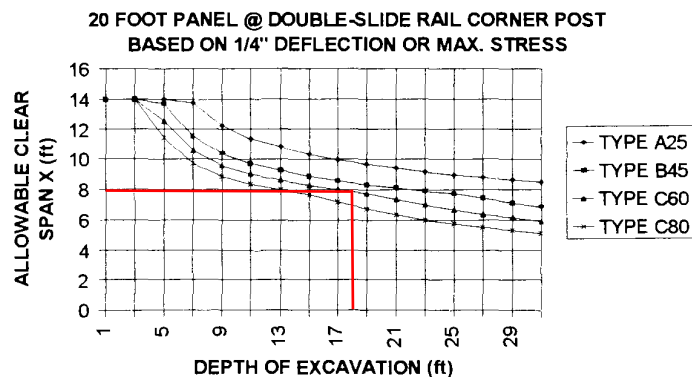
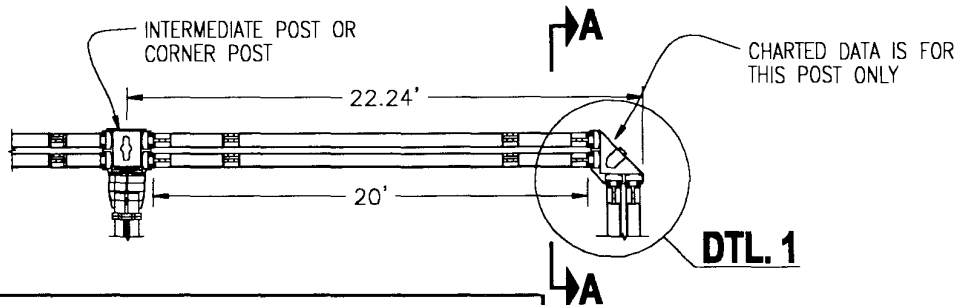
ENTER STEEL STRENGTH IN PSI	55000

PROPERTIES	UPPER	SECOND	THIRD	LOWER
I TOTAL IN4	55.69	81.68	67.55	96.12
S TOTAL IN3	24.75	36.30	30.02	42.72
P AVERAGE PSF	1057	1350	1484	1446
D AVERAGE INCHES	83.25	59.63	37.25	13.88

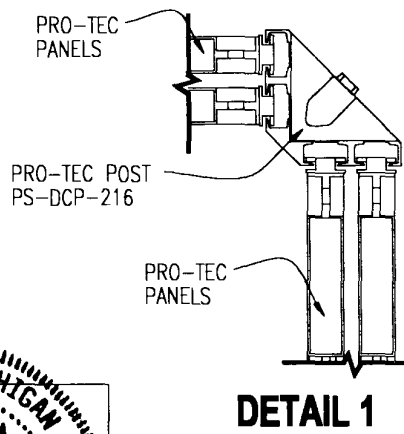
STRINGER RATINGS	UPPER	SECOND	THIRD	LOWER	DEPTH (FEET)
AT 25 PSF	1230	1475	1562	1475	49
AT 45 PSF	1369	1574	1624	1498	30
AT 60 PSF	1473	1649	1671	1516	25

PSF RATINGS	PSF
AT 25 PSF	1230
AT 45 PSF	1369
AT 60 PSF	1473

THIS PROGRAM COMPUTES THE MAXIMUM PSF AND DEPTH RATINGS FOR THE HORIZONTAL PANEL MEMBERS ONLY. CONSIDERATION OF THE TOP 8X4 TUBE IS NOT INCLUDED. CONSIDERATION OF THE BOTTOM KNIFE EDGE IS INCLUDED.

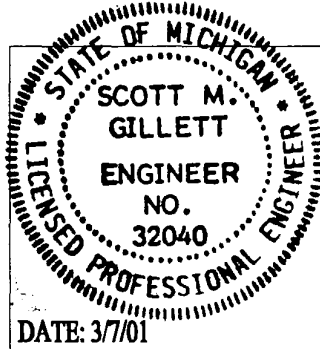


SECTION "A-A"



NOTES:

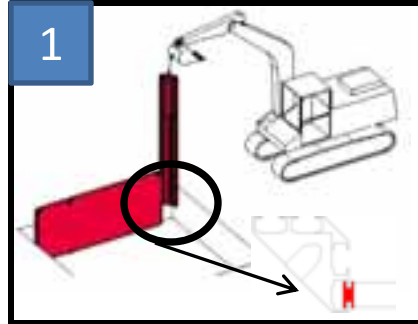
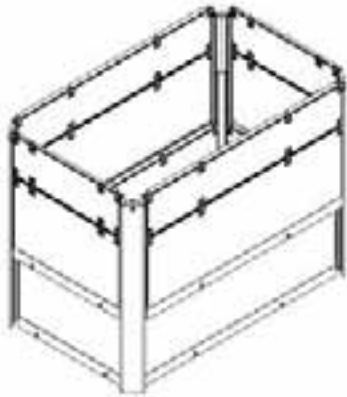
- 1) ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH OSHA CFR 29, PART 1926, SUBPART P. JULY 1997.
- 2) SOILS CLASSIFICATION SHALL BE IN COMPLIANCE WITH APPENDIX A IN OSHA CFR 29, PART 1926, SUBPART P. LATERAL EARTH PRESSURE SHALL BE DETERMINED AS FOLLOWS: (NOT INCLUDING SURCHARGE)
 - TYPE A25 SOIL > 25 PSF x EXCAVATION DEPTH
 - TYPE B45 SOIL > 45 PSF x EXCAVATION DEPTH
 - TYPE C60 SOIL > 60 PSF x EXCAVATION DEPTH
 - TYPE C80 SOIL > 80 PSF x EXCAVATION DEPTH
- 3) SOIL ABOVE TOP OF SHORING PANEL TO BE SLOPED TO OSHA REGULATIONS.
- 4) SLIDE FRAME MUST REMAIN IN PLACE WHILE SHORING PANEL IS IN EXCAVATION.
- 5) SHORING PANEL MAY BE HELD 2' ABOVE THE BOTTOM OF THE TRENCH, HOWEVER LOADING SHALL BE DETERMINED FOR FULL TRENCH DEPTH.
- 6) USE RAIL PINS TO STOP FRAME FROM SLIDING ABOVE HEIGHT X.
- 7) INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
- 8) CONSTRUCTION SAFETY RESPONSIBILITY OF THE CONTRACTOR.



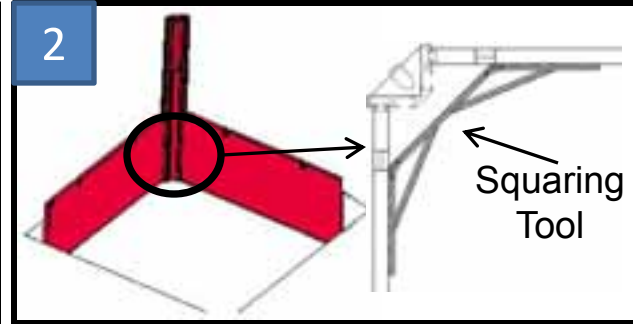
PRO-TEC Equipment Inc.
 P.O. Box 130 1296 Lipsey Dr. - Charlotte, MI 48813 (517) 541-0303 1-800-292-1225

MODEL: PS-DCP-216
 RAIL LENGTH: 18.00 ft
 SECTION MODULUS: 101.4 in³
 MATERIAL F_y = 50 ksi

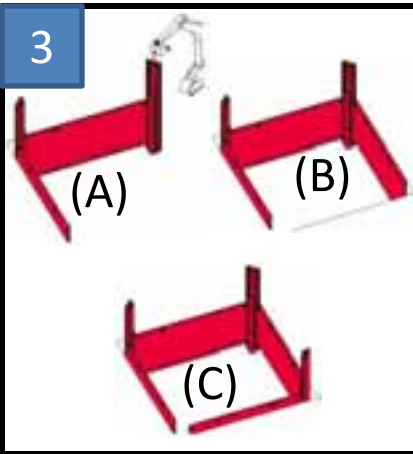
Slide Rail Installation Instructions (4 Sided Pit)



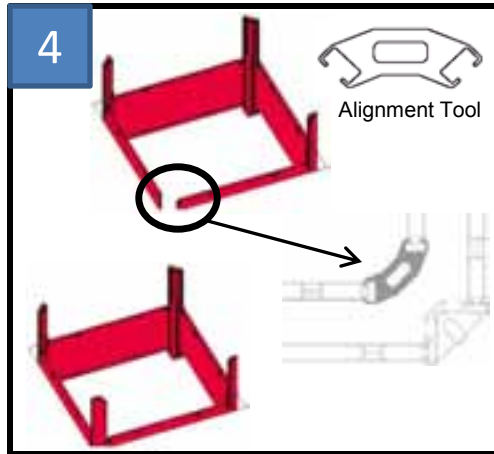
After initial excavation, first outer panel and corner post are put into place. Ensure corner posts are **PLUMB** & panels **LEVEL**.



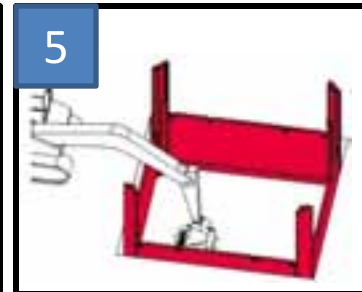
First outer panel and second panel make a right angle. Use of MBSI's squaring tool makes this task easy.



- (A) Add the next corner post.
- (B) Then next panel making a "U" shape.
- (C) Continue with next corner post and panel.

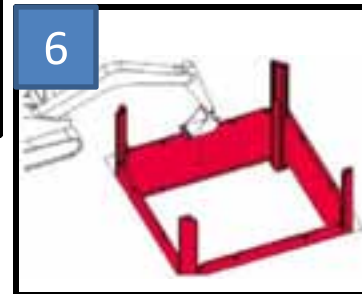


The last piece to fit when completing the top section is the final corner post. Use of MBSI's Alignment Tool helps complete this task by correctly aligning the tracks of the panels to match the track spacing of the corner post and, after being removed, the corner post can be fitted.



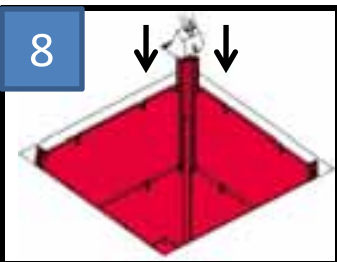
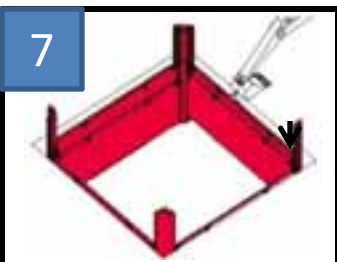
At this point, recheck to ensure posts are still plumb and panels are level.

#5 – Excavation continues.



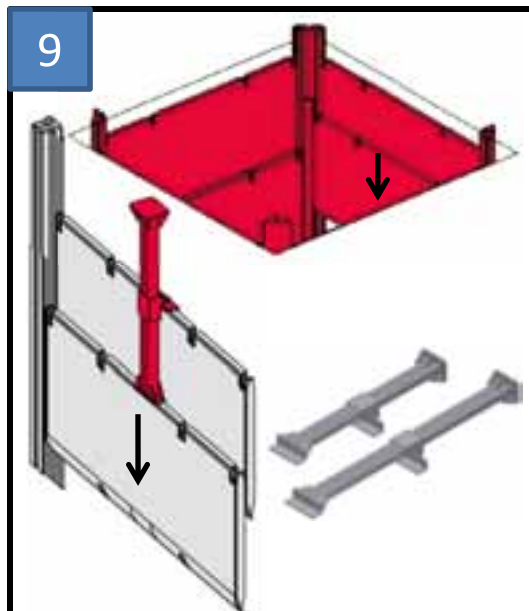
#6 – Posts and outer panels are pushed to proper depth with excavator (top of panels not deeper than grade level).

ALWAYS push the posts down before the panels.



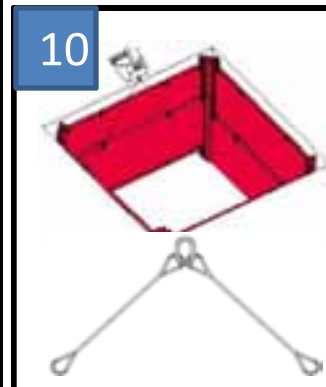
#7 – Insert all inside panels to help keep structure square.

#8 – Excavation continues and inside panels and posts follow the dig down.



When pushing the inside panels down, use of MBSI's Panel Pusher helps to keep the panel level and reduces the potential of damage to the panels by eliminating the need to use the excavator bucket on the inside panels.

Removal Instructions



#10 – Removal begins by extracting inner panels as back filling & compaction is started.

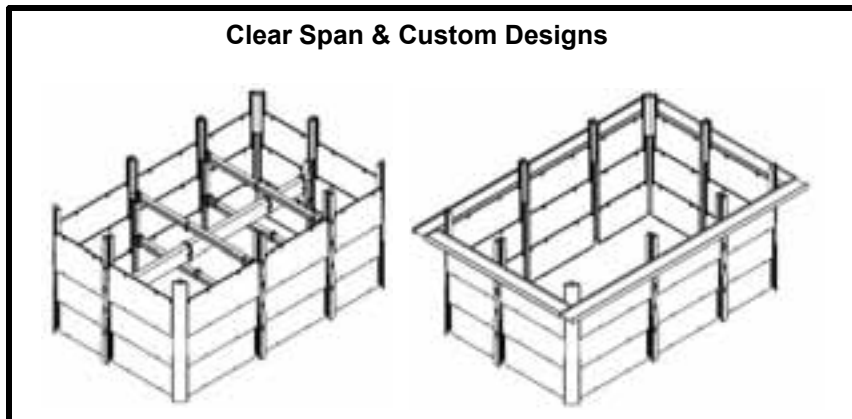
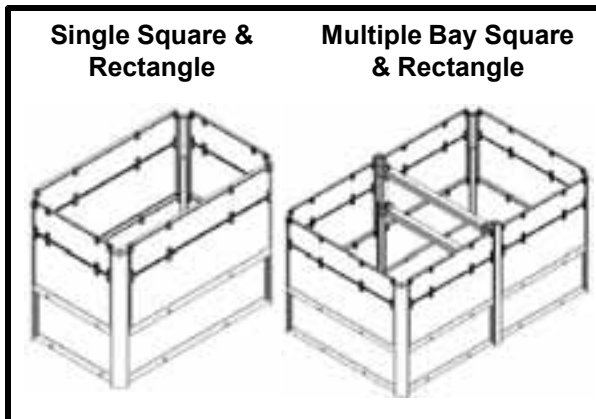
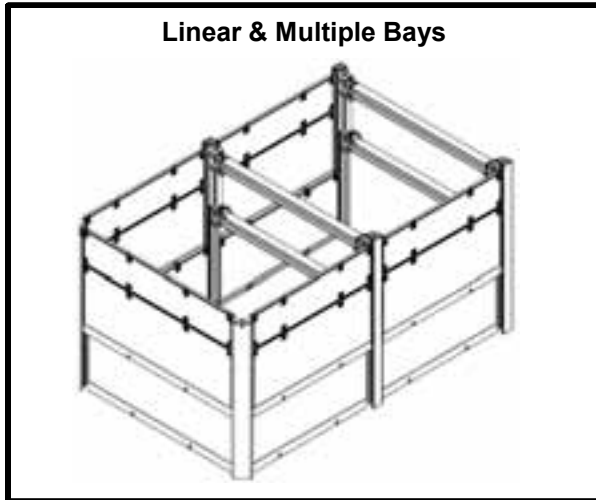
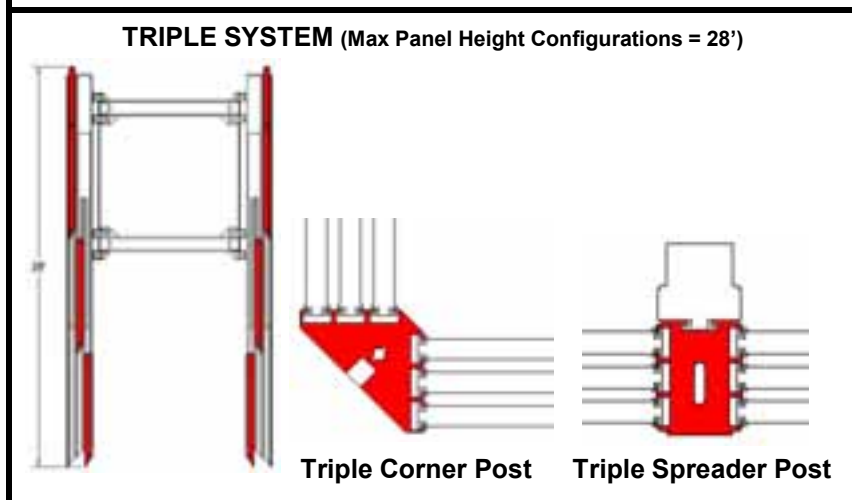
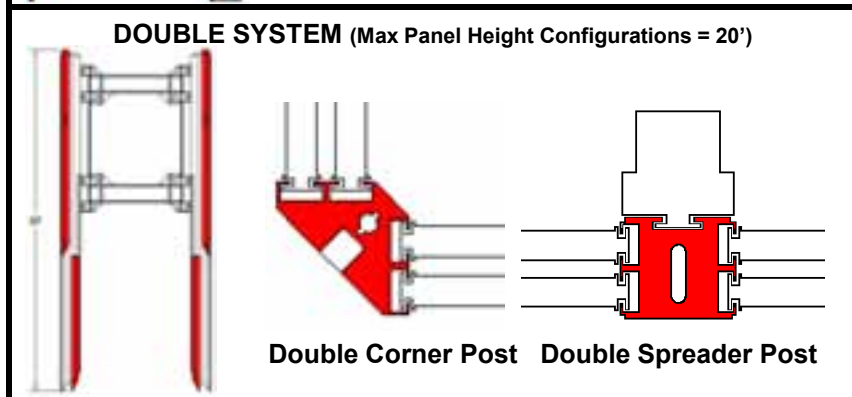
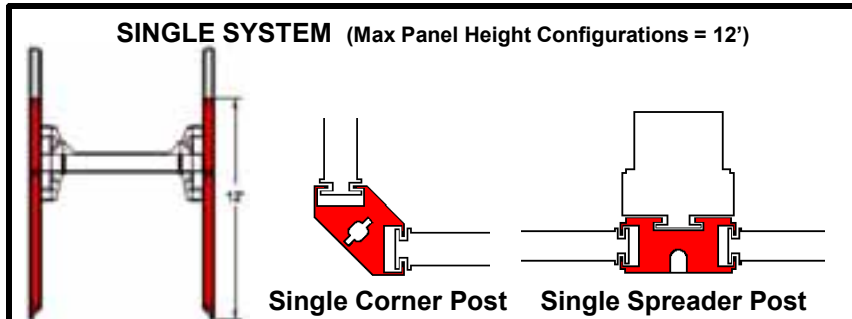
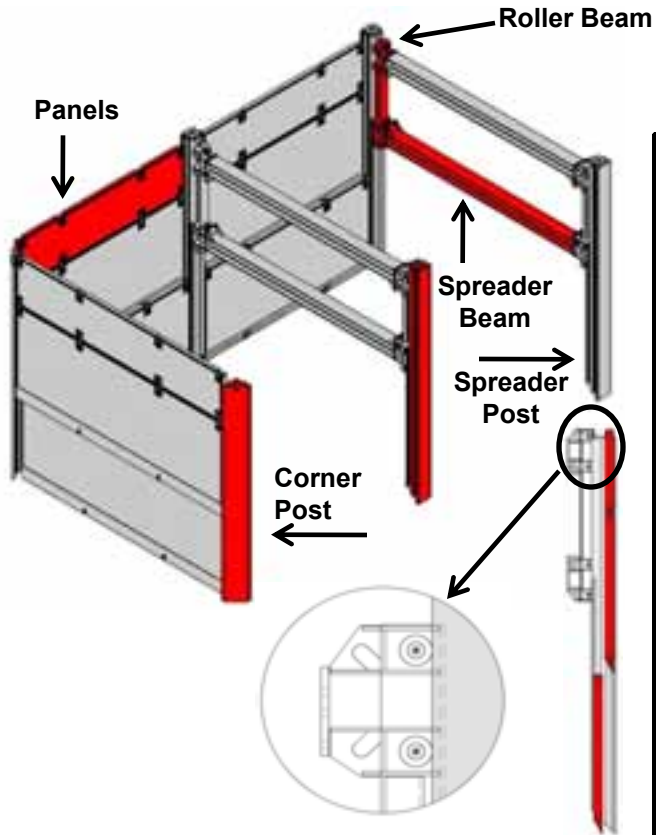
IMPORTANT!
A wire rope sling must be used to extract equipment and NOT a chain sling!!!!!!

#11 – Outer panels and corner posts are extracted as back filling and compaction is completed.



NOTE: All panels are removed and then the posts. Also, use the Post Puller Set when removing double & triple corner posts

Slide Rail Configurations Page



Safety & System Information

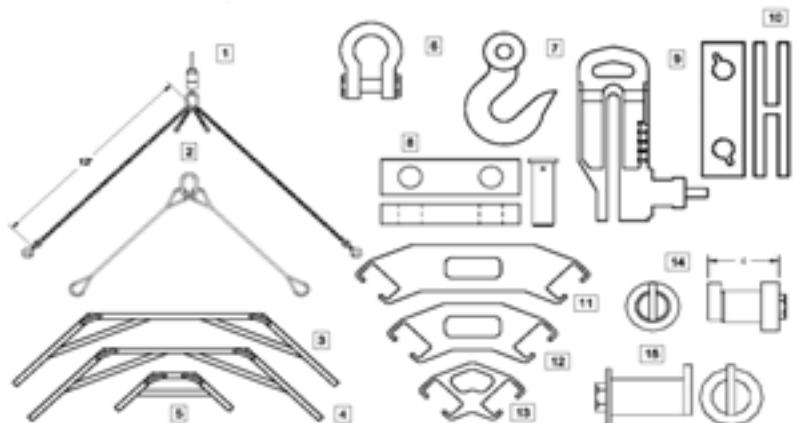
- These Installation instructions are intended as general information only. It is the contractor's responsibility to ensure that the safest and most economical method of installation is employed upon the site-specific conditions. If any site-specific instructions conflicts with these general instructions, the site-specific instructions must be followed.
- Determine only **one person** as the signal person that communicates with the excavator operator.
- The dimensions of the pre-excavation should be limited to an area no larger than what is needed to install the equipment being used at the time and to a depth not to exceed OSHA requirements for an unsupported excavation.
- Never stand on the edge of the excavation or by the top panels until bottom panels are completely fitted into place.
- If soil is exposed under bottom panels, it could give way causing a void and a drop of soil at grade level outside the pit.
- There should be at least a 20 foot clear work space around all sides of excavation. If that is not possible, workers should avoid accessing these areas until the system is completely installed.
- Rope for Quick Release Shackle shall not be extended past the bottom of the posts and not be used as a guide rope.
- Use of one guide rope on posts and two on panels should be used when fitting components during installation.
- When fitting one post onto two panels, having one panel slightly higher than the other will help with the connection.
- If using Roller Stops or H Bracket Pins, only turn pin ½ way to ensure locking key is in correct position.
- After four sides are assembled, backfill around the outside of the panels and recheck system for level and plumb.
- If a 4ft extension panel is required, it must be installed at the top of the system (closest to grade) and connected to the outermost 8ft panel with "H Brackets & Pins.

Contractor Responsibilities

- Verify availability of appropriate sized excavator(s) with experienced operator(s) before starting installation.
- Verification of actual soil conditions and surcharge loads prior to start of job. Submerged soil conditions must be dewatered (**dewatering must be done on the outside of the system**).
- Contractor is to erect the pit in accordance with defined instructions and in compliance with all applicable Local, State and Federal Safety Laws.
- If Slide Rail equipment is used in contaminated soils, it is the contractors responsibility to have the equipment decontaminated before returning to MBSI. If returned contaminated, the contractor will be invoiced for all charges incurred by MBSI for decontamination of said equipment.

Slide Rail System Accessories

Item #	Description	Intended Use	Weight (Lbs)
1	2 Leg 1/2" Chain Sling 12' Long w/ Swivel Hook	Setting Panels/ Posts	200
2	2 Leg 1-1/2" Wire Rope Sling 10' Long	Pulling Panels/ Roller Frame	220
3	Triple Squaring Tool	Squaring Panels With Triple Posts	14
4	Double Squaring Tool	Squaring Panels With Double Posts	13
5	Single Squaring Tool	Squaring Panels With Single Posts	6
6	30 Ton 1-1/2" Bolt Type Shackle	Pulling Corner/ Spreader Posts	20
7	7/8" Chain Size Hook	Pulling Panels	20
8	Corner Post Lifting Bar With Pin And Keeper	Lifting Corner Posts	40
9	Ground Release Shackle w/ Safety Ring	Setting Corner/ Spreader Posts	48
10	H-Bracket	Connecting Panels	35
11	Triple Alignment Tool	Alignment Of Panel Track For Insertion Of Triple Corner Post	9
12	Double Alignment Tool	Alignment Of Panel Track For Insertion Of Double Corner Post	6
13	Single Alignment Tool	Alignment Of Panel Track For Insertion Of Single Corner Post	3
14	Spreader Post Stopper Pin	To Hold Roller Frame Vertical Clearance	4
15	H-Bracket Pin	Used In Conjunction With H-Bracket In Connecting Panels	4



WSP
5 Sullivan Street
Cazenovia, New York 13035

Tel: 315.655.3900
Fax: 315.655.3907

